



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

**CONSTRUCTION CODE COMMISSION
BUREAU OF CONSTRUCTION CODES**

Conference Room 3, First Floor
2501 Woodlake Circle
Okemos, Michigan 48864

AGENDA

May 7, 2008

9:30 a.m.

1. Call to Order and Determination of Quorum
2. Approval of Agenda (Pages 1-2)
3. Approval of Minutes – March 5, 2008 (Pages 9-15)
4. Director's Report H. Green
5. Report of Assistance to Local Enforcing Agencies - Document 08-27 (Page 16) M. Sisco
6. Applications for Approval to Administer and Enforce (Pages 17-22) S. Fisher
 - a) With Proposed Ordinance - Document 08-28a
 - b) With Certified Ordinance - Document 08-28b
7. Recommendation to Close Performance Evaluation S. Fisher
 - a) City of Hamtramck/Wayne County – Document 08-37 (Pages 23-27)
 - b) Port Huron Township/St. Clair County – Document 08-38 (Pages 28-32)
8. Applications for Program Approval - Document 08-29 (Pages 33-39) S. Fisher
9. Applications for Instructor Approval – Document 08-30 (Pages 40-42) S. Fisher
10. Applications for Inspector Registration - Documents 08-31a-d (Pages 43-47) S. Fisher

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11. Inspector Registration Appeal S. Fisher
 - a) Timothy P. Israel – Document 08-41
12. Product Approvals - Plumbing (Pages 48-69) B. Konyndyk
 - a) APL-2000 Epoxy Pipe Coating Material - Document 08-32
 - b) Precast Concrete 1250 gallon and 1500 gallon Interceptors – Document 08-33
 - c) Eternal Hybrid Water Heater, Models GU 26 and GU 32 – Document 08-34
 - d) NobleSeal TS – Document 08-35
 - e) Bradley Model LC840 LavCare Module – Document 08-36
13. Product Approval – Mechanical (Pages 70-97) T. Barry
 - a) Fabric Air Inc. – Air Dispersion Systems - Document 08-39
14. Certificates of Acceptability – Document 08-40 (Pages 98-104) I. Poke
 - a) CA-510 – Hubley Industries, Inc.
 - b) CA 516 – Craven Construction Inc. DBA Cottage A Day
 - c) CA 372 – Liberty Homes Inc.-Dorchester Homes
15. Public Comment
16. Old Business
17. New Business
18. Schedule for 2008 – July 9th, September 10th, November 5th
19. Adjournment

The meeting site and parking is accessible. Individuals attending the meeting are requested to refrain from using heavily scented personal care products, in order to enhance accessibility for everyone. People with disabilities requiring additional services (such as materials in alternative format) in order to participate in the meeting should call Holly Velez at (517) 241-9302 at least 10 work days before the event.
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BUREAU OF CONSTRUCTION CODES
Conference Room 3, First Floor
2501 Woodlake Circle
Okemos, Michigan 48864

MINUTES

January 9, 2008
9:30 a.m.

MEMBERS PRESENT

Mr. Robert DeBerardino
Mr. William Donovan
Mr. Jack Edington
Ms. Dawn Holtrop
Ms. Kelly Hunt
Mr. Robert Jagenberg
Mr. Kenneth Lawless
Mr. Clifton Lewis
Mr. Sean O'Neil
Mr. Don Pratt
Mr. Edwin Tatem
Ms. Beth Yorke

MEMBERS ABSENT

Mr. Duane Branch
Mr. Nelson McMath
Mr. Amru Meah

DEPARTMENT OF LABOR & ECONOMIC GROWTH PERSONNEL ATTENDING

Mr. Mark Sisco, Deputy Director
Mrs. Holly Velez, Secretary to Mr. Green
Ms. Margie Hebden, Secretary to Mr. Sisco
Mrs. Beth Aben, Director, Office of Administrative Services
Mr. David Vigas, Director, Office of Management Services
Mr. Scott Fisher, Director, Office of Local Government & Consumer Services
Mr. Larry Lehman, Chief, Building Division
Mr. Charles Curtis, Assistant Chief, Building Division
Mr. John Tisdale, Senior Inspector, Building Division
Mr. Irvin Poke, Chief, Plan Review Division
Mr. Todd Cordill, Assistant Chief, Plan Review
Mr. Daniel O'Donnell, Assistant Chief, Electrical Division
Mr. Jim Hennesey, Senior Inspector, Electrical Division
Mr. Tennison Barry, Chief, Mechanical Division
Mr. Dave Adams, Assistant Chief, Mechanical Division

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Mr. Kevin Kalakay, Senior Inspector, Mechanical Division
Mr. Robert Konyndyk, Chief, Plumbing Division
Mr. Andrew B. Neuman, Assistant Chief, Plumbing Division
Mr. Joe Madziar, Senior Inspector, Plumbing Division

OTHERS IN ATTENDANCE

Lynn Briggs, Contractors Legislative Services
Robert Meyer, Leelanau County
John McGlinchey, Cohl, Stoker, Toskey & McGlinchey
Bert Gale, AGS
Dale Westrick
David Pate, City of Adrian
Richard Garino, City of Adrian
George Papdelis, Telly's Greenhouse
Richard Gartner, Assistant Attorney General
Don Welch, Bureau of Fire Services Representative

1. CALL TO ORDER AND DETERMINATION OF QUORUM

Chairperson Pratt called the meeting to order at approximately 9:32 a.m. A quorum was determined present at that time.

2. APPROVAL OF AGENDA

A **MOTION** was made by Commissioner Edington and supported by Commissioner DeBerardino to approve the agenda. **MOTION CARRIED.**

3. APPROVAL OF MINUTES

A **MOTION** was made by Commissioner Lewis and supported by Commissioner Tatem to approve the minutes of the September 12, 2007 meeting. **MOTION CARRIED.**

4. DIRECTOR'S REPORT

Deputy Director Mark Sisco provided an update regarding the Michigan Building Code. He explained the issues that have held up the promulgation of these rules.

5. REPORT OF ASSISTANCE TO LOCAL ENFORCING AGENCIES
Document 08-01

Mr. Mark Sisco presented, for information only, a list of municipalities for which the bureau is providing assistance.

6. **REPORT OF RESCINDING ORDINANCE – Document 08-08**

Mr. Scott Fisher presented certified ordinances from the Village of Elsie/Clinton County rescinding their building, electrical, mechanical and plumbing ordinances and transferring the authority to the County of Clinton; City of Montrose/Genesee County rescinding their electrical, mechanical and plumbing ordinances and transferring the authority to the State of Michigan; and Watervliet Township/Berrien County rescinding their plumbing ordinance and transferring the authority to the State of Michigan. It is the recommendation of staff that these ordinances be approved.

A **MOTION** was made by Commissioner Edington and supported by Commissioner Lawless to approve the ordinances. **MOTION CARRIED.**

7. **PERFORMANCE EVALUATION REPORT**

a) **Benzie County - Document 08-09**

Mr. Scott Fisher presented a performance evaluation summary of Benzie County. It is the recommendation of staff to accept the report with the recommendations as outlined.

Following discussion by the Commission, A **MOTION** was made by Commissioner DeBerardino and supported by Commissioner Lewis to accept the recommendations of staff. **MOTION CARRIED.**

b) **Leelanau County - Document 08-10**

Mr. Scott Fisher presented a performance evaluation summary of Leelanau County. It is the recommendation of staff to accept the report with the recommendations as outlined.

Following discussion by John McGlinchey, County Attorney, Robert Meyer, Building Official, and the Commission, A **MOTION** was made by Commissioner Jagenberg and supported by Commissioner Yorke to accept the recommendations of staff. **MOTION CARRIED.**

8. **RECOMMENDATION TO CLOSE PERFORMANCE EVALUATION**

a) **Exeter Township/Monroe County - Document 08-06**

Mr. Scott Fisher presented a summary of the performance evaluation report of Exeter Township/Monroe County. It is the recommendation of staff to close the performance evaluation file.

A **MOTION** was made by Commissioner DeBerardino and supported by Commissioner O'Neil to accept the recommendation of staff. **MOTION CARRIED.**

b) London Township/Monroe County – Document 08-07

Mr. Scott Fisher presented a summary of the performance evaluation report of London Township/Monroe County. It is the recommendation of staff to close the performance evaluation file.

A **MOTION** was made by Commissioner Donovan and supported by Commissioner O'Neil to accept the recommendation of staff. **MOTION CARRIED.**

9. APPLICATIONS FOR PROGRAM APPROVAL – Document 08-02

Mr. Scott Fisher presented a list of continuing education program applications for approval. The programs were reviewed and found to be in compliance with the registration rules and it is the recommendation of staff that the programs be approved.

A **MOTION** was made by Commissioner Jagenberg and supported by Commissioner Tatem to approve the applications as submitted. **MOTION CARRIED.**

**10. APPLICATIONS FOR CONTINUING EDUCATION INSTRUCTOR APPROVAL
Document 08-04**

Mr. Scott Fisher presented a list of continuing education instructor applications for approval. Each has documented training and education in compliance with the registration rules, and it is the recommendation of staff that the instructors be approved.

A **MOTION** was made by Commissioner Lawless and supported by Commissioner DeBerardino to approve the applications as submitted. **MOTION CARRIED.**

**11. APPLICATIONS FOR REGISTRATION OF CODE OFFICIALS
Document 08-05a-h**

Mr. Scott Fisher presented a list of applications for registration as building officials, building inspectors, plan reviewers, electrical inspectors, mechanical inspectors, and plumbing inspectors. It is the recommendation of staff that the individuals listed be approved with the exception of Christopher Salazar listed on Document #08-05h pending final approval by the State Plumbing Board at their next meeting scheduled for February 6, 2008.

A **MOTION** was made by Commissioner O'Neil and supported by Commissioner Donovan to approve the applications. **MOTION CARRIED.** (Commissioner DeBerardino abstained.)

12. PETITION FOR APPROVAL OF MATERIALS, PRODUCTS & METHODS (PLUMBING)

Mr. Robert Konyndyk presented the following products for installation and use in the State of Michigan. It is the recommendation of staff that the following products be approved:

- a) **Kohler Co., Steward Waterless Urinals Models K-4917, K-4918, K-4919 Document 08-12**
- b) **Shurjoint Piping Products for Copper Water Systems – Document 08-13**

A **MOTION** was made by Commissioner Tatem and supported by Commissioner Jagenberg to approve both items for installation and use in the State of Michigan subject to the conditions of use and installation. **MOTION CARRIED.**

13. CERTIFICATE OF ACCEPTABILITY

Mr. Irvin Poke presented the following manufacturer for a Certificate of Acceptability in the State of Michigan. It is the recommendation of staff that the following manufacturer be issued a Certificate of Acceptability:

Document 08-14 – Powerwave Technologies Inc. - CA-513

A **MOTION** was made by Commissioner Edington and supported by Commissioner O'Neil to issue the Certificate of Acceptability as noted on Document 08-14. **MOTION CARRIED.**

14. REQUEST FOR FORMAL INTERPRETATION – Document 08-11

Mr. Larry Lehman presented a Formal Interpretation of Section R105.2 of the Michigan Residential Code as requested by The Michigan Association of Home Builders. It is the recommendation of staff to accept and issue this interpretation.

Following discussion by the Commission, a **MOTION** was made by Commissioner Holtrop and supported by Commissioner Edington to accept staff's recommendation to accept and issue the interpretation as noted on Document 08-11. (Commissioner Donovan voted nay) **MOTION CARRIED.**

15. PUBLIC COMMENT

Dale Westrick voiced concerns he has with Watertown Township/Clinton County and the fees they are charging for inspections. He also raised concerns with a subdivision within his township that is allowing occupancy in the homes without the sewer system being connected. Chairman Pratt advised Mr. Westrick to file a written formal complaint with the bureau.

George Papadelis owner of a garden center in the City of Troy brought forth an issue that has been raised regarding agricultural use of land. He provided background on the issue that he shared with the Commission. Mr. Rick Gartner, Assistant Attorney General for the bureau was present in the audience and reiterated that the Supreme Court Decision is final. Commissioner DeBerardino made the suggestion of taking this case to the City of Troy's Zoning Board of Appeals.

16. OLD BUSINESS

None.

17. NEW BUSINESS

Commissioner Jagenberg requested an understanding if and why the Bureau of Fire Services Designee is not listed in the Minutes and will they be in the future? Mr. Sisco explained that Mr. Green is in discussion with the Department on this issue.

Commissioner Donovan inquired when the interpretation approved by the Commission today would be effective. The interpretation is effective immediately.

18. 2008 MEETING SCHEDULE – March 5th, May 7th, July 9th, September 10th, November 7th-5th

19. ADJOURNMENT

A **MOTION** was made by Commissioner Jagenberg and supported by Commissioner DeBerardino to adjourn the meeting at approximately 11:25 a.m. **MOTION CARRIED.**

APPROVED:



Chairman, Construction Code Commission

3/10/08
Date



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GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
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CONSTRUCTION CODE COMMISSION
DEPARTMENT OF LABOR & ECONOMIC GROWTH
BUREAU OF CONSTRUCTION CODES
Conference Room 3, First Floor
2501 Woodlake Circle
Okemos, Michigan 48864

MINUTES
March 5, 2008
9:30 a.m.

MEMBERS PRESENT

Mr. Duane Branch
Mr. Robert DeBerardino
Mr. William Donovan
Mr. Jack Edington
Ms. Dawn Holtrop
Mr. Robert Jagenberg
Mr. Kenneth Lawless
Mr. Nelson McMath
Mr. Sean O'Neil
Mr. Don Pratt
Mr. Edwin Tatem

MEMBERS ABSENT

Ms. Kelly Hunt
Mr. Clifton Lewis
Mr. Amru Meah
Ms. Beth Yorke

DEPARTMENT OF LABOR & ECONOMIC GROWTH PERSONNEL ATTENDING

Mr. Henry L. Green, Director
Mr. Mark Sisco, Deputy Director
Mrs. Holly Velez, Secretary to Mr. Green
Mrs. Beth Aben, Director, Office of Administrative Services
Mr. David Viges, Director, Office of Management Services
Mr. Larry Lehman, Chief, Building Division
Mr. Charles Curtis, Assistant Chief, Building Division
Mr. Todd Cordill, Assistant Chief, Plan Review
Mr. Daniel O'Donnell, Chief, Electrical Division
Mr. Tennison Barry, Chief, Mechanical Division
Mr. Dave Adams, Assistant Chief, Mechanical Division
Mr. Robert Konyndyk, Chief, Plumbing Division

OTHERS IN ATTENDANCE

Don Welch, Bureau of Fire Services Representative
Lynn Briggs, Contractors Legislative Services

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Bert Gale, AGS

Lee Schwartz, Michigan Association of Home Builders

Martin Vanberlo, Emmet County

Chuck Partyka, Emmet County

George & Margaret Paeth

1. **CALL TO ORDER AND DETERMINATION OF QUORUM**

Chairperson Pratt called the meeting to order at approximately 9:35 a.m. A quorum was determined present at that time.

2. **APPROVAL OF AGENDA**

The agenda was amended to correct a product model number from 2800 to 3800 in Item 12.

A **MOTION** was made by Commissioner O'Neil and supported by Commissioner Branch to approve the agenda as amended. **MOTION CARRIED.**

3. **APPROVAL OF MINUTES**

Commissioner O'Neil noted in Item 18 the November meeting date should be corrected from the 7th to the 5th. Mr. Don Welch requested that the minutes reflect that the designee from the State Fire Marshal's office was present at the last meeting. A **MOTION** was made by Commissioner Branch and supported by Commissioner Lawless to approve the amended minutes of the January 9, 2008 meeting. **MOTION CARRIED.**

4. **DIRECTOR'S REPORT**

Chairman Pratt announced that Henry was among seven individuals selected by the American Institute of Architects to receive an Honorary Affiliate Award. Chairman Pratt read the article from the Bulletin's Winter 2008 edition. Henry thanked the Commission for their acknowledgement of his Honorary AIA title.

New Electrical Division Chief

Mr. Green announced that Dan O'Donnell was promoted to Chief of the Electrical Division effective January 27, 2008. We are proud to have you on our team. Congratulations on your promotion!

Deputy Director Retirement

Mr. Green announced that Mark Sisco has announced his retirement effective May 1, 2008. He went on to share what a wonderful job Mark has done as the Deputy Director during the many years he has been with the bureau. Mr. Green asked Mark to share a few

March 5, 2008

words with the Commission. Mr. Sisco shared what a great career he has had working with the bureau, Henry and the Commission. We wish you well in your retirement Mark!

Clark Construction – Safety Milestones

Clark Construction logged 2 Million Hours as of January 31, 2008 and from December 21, 2001-2007 7 years with no lost time injuries. Congratulations to Clark Construction for keeping their jobsites safe and providing for Michigan's safety in the built environment!

Almont Township Update

Mr. Green announced that a Settlement Agreement has been reached with the township. There are a number of actions that need to be carried out to close this file. The bureau will be following up with the township to assure that the requirements are met and carried out. The bureau will provide periodic reports to the Commission regarding the progress.

Leelanau County Update

Mr. Green announced that the bureau is in the process of drafting a Settlement Agreement. The bureau met with county representatives on February 26, 2008. Mark Sisco is working towards putting together a package for the Settlement Agreement. The bureau will provide periodic reports to the Commission regarding the progress.

Rule Update

The building, residential and rehabilitation rules have been at JCAR since January 31, 2008. Staff is working with ICC to publish the Michigan Code books. We are anticipating an August 1, 2008 effective date.

Energy Code

Letters were sent out on March 4th soliciting representatives for the Ad Hoc Committee. A very specific plan has been submitted on how the code will be developed and what actions the committee will take. Responses for the representatives are due by March 17th and it is anticipated that the meetings will begin taking place towards the end of April first of May.

Forbes Ad Hoc Committee

The committee met on February 29, 2008. It is believed that a good package has been developed with only 1 issue to be addressed regarding inspectors. This will align the Mechanical Contractor law with the Plumbing and Electrical Laws. It will provide for registration of Apprentices and licensure of Journeypersons and Contractors, which requires on-going education and training much like the Plumbing and Electrical Laws.

ICC Code Hearings

The code hearings concluded on March 1, 2008, for the preparation of the 2009 codes. The bureau was represented by Tennison Barry, Irvin Poke, Larry Lehman, and Robert

Konyndyk. Henry Green also attended as a Moderator for the hearings. The Final Action Hearings will take place in Minneapolis this fall.

5. REPORT OF ASSISTANCE TO LOCAL ENFORCING AGENCIES

Document 08-15

Mr. Mark Sisco presented, for information only, a list of municipalities for which the bureau is providing assistance.

6. REPORT OF RESCINDING ORDINANCE – Document 08-20

Mr. Mark Sisco presented a certified ordinance from Bridgeton Township/Newaygo County rescinding their building ordinance and transferring the authority to the County of Newaygo. It is the recommendation of staff that this ordinance be approved.

A **MOTION** was made by Commissioner Edington and supported by Commissioner Donovan to approve the ordinance. **MOTION CARRIED.**

7. APPLICATION FOR APPROVAL TO ADMINISTER AND ENFORCE

a) With Certified Ordinance – Document 08-16

Mr. Mark Sisco presented an application for approval to administer and enforce and certified ordinance from: Raisin Township/Lenawee County (Michigan Plumbing Code) and City of New Buffalo/Berrien County (Michigan Plumbing Code).

A **MOTION** was made by Commissioner Lawless and supported by Commissioner O'Neil to accept the recommendation of staff to approve the application and certified ordinance for approval to administer and enforce the above code. **MOTION CARRIED.**

8. PERFORMANCE EVALUATION REPORT

a) Union Township/Isabella County - Document 08-23

Mr. Mark Sisco presented a performance evaluation summary of Union Township/Isabella County. It is the recommendation of staff to accept the report with the recommendations as outlined.

A **MOTION** was made by Commissioner McMath and supported by Commissioner Holtrop to accept the recommendations of staff. **MOTION CARRIED.**

9. **APPLICATIONS FOR PROGRAM APPROVAL – Document 08-17**

Mr. Mark Sisco presented a list of continuing education program applications for approval. The programs were reviewed and found to be in compliance with the registration rules and it is the recommendation of staff that the programs be approved.

A **MOTION** was made by Commissioner Edington and supported by Commissioner DeBerardino to approve the applications as submitted. **MOTION CARRIED.**

10. **APPLICATIONS FOR CONTINUING EDUCATION INSTRUCTOR APPROVAL Document 08-18**

Mr. Mark Sisco presented a list of continuing education instructor applications for approval. Each has documented training and education in compliance with the registration rules, and it is the recommendation of staff that the instructors be approved.

A **MOTION** was made by Commissioner Donovan and supported by Commissioner McMath to approve the applications as submitted. **MOTION CARRIED.**

11. **APPLICATIONS FOR REGISTRATION OF CODE OFFICIALS Document 08-19a-e**

Mr. Mark Sisco presented a list of applications for registration as building officials, building inspectors, plan reviewers, electrical inspectors, and mechanical inspectors. It is the recommendation of staff that the individuals listed be approved.

A **MOTION** was made by Commissioner DeBerardino and supported by Commissioner Branch to approve the applications. **MOTION CARRIED.**

12. **INSPECTOR REGISTRATION APPEAL**

a) **Charles T. Partyka – Document 08-21**

Mr. Mark Sisco presented information regarding Mr. Partyka's appeal of the denial of his request for registration as a building inspector.

Following comments by Mr. Partyka and Martin VanBerlo, Emmet County Building Official and discussion by the Commission, a **MOTION** was made by Commissioner Donovan and supported by Commissioner McMath to accept the recommendation of staff to deny Mr. Partyka's request for provisional registration as a building inspector. **MOTION CARRIED.**

13. PETITION FOR APPROVAL OF MATERIALS, PRODUCTS & METHODS (PLUMBING)

Mr. Robert Konyndyk presented the following product for installation and use in the State of Michigan. It is the recommendation of staff that the following product be approved:

- a) **Invacare Access 3600XL, 3750, 3600, 3650, and 3800 Hydromassage Bathtubs - Document 08-24**

A **MOTION** was made by Commissioner Branch and supported by Commissioner McMath to approve this product for installation and use in the State of Michigan subject to the conditions of use and installation. **MOTION CARRIED.**

Mr. Green interjected some information in reference to plumbing approvals and the major discussion regarding cast iron pipe that was before the Commission last fall. The Cast Iron Soil Pipe Institute (CISPI) has invited representatives from the Plumbing Board and staff to come to a manufacturing facility to see how cast iron pipe is made in the United States. This should add vastly to the education of both staff as well as the Plumbing Board who use the product daily. This is a good opportunity for the Plumbing Board as well as staff to become fully acquainted with this product.

14. PETITION FOR APPROVAL OF MATERIALS, PRODUCTS & METHODS (Mechanical)

Mr. Tension Barry presented the following product for installation and use in the State of Michigan. It is the recommendation of staff that the following product be approved:

- a) **Tyco Fire & Building Products Grooved Couplings and Fittings Document 08-22**

A **MOTION** was made by Commissioner Jagenberg and supported by Commissioner Tatem to approve this product for installation and use in the State of Michigan subject to the conditions of use and installation. **MOTION CARRIED.**

15. CERTIFICATE OF ACCEPTABILITY

Mr. Todd Cordill presented the following manufacturer for a Certificate of Acceptability in the State of Michigan. It is the recommendation of staff that the following manufacturer be issued a Certificate of Acceptability:

Document 08-26 – Modular Buildings of Monroe - CA-515

A **MOTION** was made by Commissioner Edington and supported by Commissioner Lawless to issue the Certificate of Acceptability as noted on Document 08-26. **MOTION CARRIED.**

16. **REQUEST FOR FORMAL INTERPRETATION – Document 08-25**

Mr. Todd Cordill presented a Formal Interpretation of the Michigan Building, Residential and Rehabilitation Codes Sections 102.6, R102.7 and 101.4 respectively as requested by The Michigan Association of Home Builders. It is the recommendation of staff to accept and issue this interpretation.

Following discussion by the Commission, a **MOTION** was made by Commissioner O'Neil and supported by Commissioner McMath to accept staff's recommendation to accept and issue the interpretation as noted on Document 08-25. **MOTION CARRIED.**

17. **PUBLIC COMMENT**

None.

18. **OLD BUSINESS**

None.

19. **NEW BUSINESS**

- a) **Commission Correspondence from Tim Israel**
- b) **Commission Correspondence from Richard Nash & Associates**

The Commission acknowledges receipt of both pieces of correspondence.

20. **2008 MEETING SCHEDULE** – May 7th, July 9th, September 10th, November 5th

21. **ADJOURNMENT**

A **MOTION** was made by Commissioner Donovan and supported by Commissioner Tatem to adjourn the meeting at approximately 10:58 a.m. **MOTION CARRIED.**

APPROVED:

Chairman, Construction Code Commission

Date



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

April 22, 2008

DOCUMENT #08-27

TO: Members of the Construction Code Commission
FROM: Mark Sisco, Deputy Director *MS*
SUBJECT: Report of Assistance to Local Enforcing Agencies

Below are the municipalities for which we have granted temporary assistance:

1. Charter Township of Shelby/Macomb County
Plan review, permit and inspection services
Project: Justice Center
2/27/08 – until completion of project
2. Village of Lawton/Van Buren County
Building, Mechanical, Plumbing code plan review, permit and inspection services
Project: Honee Bear Canning Company
2/27/08 – until completion of project

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KEITH W. COOLEY
ACTING DIRECTOR

DOCUMENT #08-28a

April 18, 2008

TO: Members of the Construction Code Commission

FROM: Scott D. Fisher, Director
Office of Local Government and Consumer Services

SUBJECT: Application for Approval to Administer and Enforce a Code

The following units of government have submitted applications for approval to administer and enforce the Michigan codes, along with proposed ordinances:

1. **B-08-05** **Everett Township/Newaygo**
Michigan Building Code
Proposed Ordinance
Inspector/Plan Reviewer: Duane H. Cruzan (Registration No. 001235)
Previously county enforced
2. **E-08-05** **Everett Township/Newaygo**
Michigan Electrical Code
Proposed Ordinance
Inspector/Plan Reviewer: Maurice VanNevel (Registration No. 004915)
Previously county enforced
3. **M-08-09** **Everett Township/Newaygo**
Michigan Mechanical Code
Proposed Ordinance
Inspector/Plan Reviewer: Greg Streichhirsch (Registration No. 004432)
Previously county enforced
4. **P-08-12** **Everett Township/Newaygo**
Michigan Plumbing Code
Proposed Ordinance
Inspector/Plan Reviewer: Fred Inman (Registration No. 005524)
Previously state enforced
5. **B-08-06** **City of White Cloud/Newaygo**
Michigan Building Code
Proposed Ordinance
Inspector/Plan Reviewer: Duane H. Cruzan (Registration No. 001235)
Previously county enforced

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6. **E-08-06** **City of White Cloud/Newaygo**
Michigan Electrical Code
Proposed Ordinance
Inspector/Plan Reviewer: Maurice VanNevel (Registration No. 004915)
Previously county enforced
7. **M-08-10** **City of White Cloud/Newaygo**
Michigan Mechanical Code
Proposed Ordinance
Inspector/Plan Reviewer: Greg Streichhirsch (Registration No. 004432)
Previously county enforced
8. **P-08-13** **City of White Cloud/Newaygo**
Michigan Plumbing Code
Proposed Ordinance
Inspector/Plan Reviewer: Fred Inman (Registration No. 005524)
Previously state enforced
9. **B-08-07** **Sheridan Township/Newaygo**
Michigan Building Code
Proposed Ordinance
Inspector/Plan Reviewer: Duane H. Cruzan (Registration No. 001235)
Previously county enforced
10. **E-08-07** **Sheridan Township/Newaygo**
Michigan Electrical Code
Proposed Ordinance
Inspector/Plan Reviewer: Maurice VanNevel (Registration No. 004915)
Previously county enforced
11. **M-08-11** **Sheridan Township/Newaygo**
Michigan Mechanical Code
Proposed Ordinance
Inspector/Plan Reviewer: Greg Streichhirsch (Registration No. 004432)
Previously county enforced
12. **P-08-14** **Sheridan Township/Newaygo**
Michigan Plumbing Code
Proposed Ordinance
Inspector/Plan Reviewer: Fred Inman (Registration No. 005524)
Previously state enforced
13. **B-08-08** **Bellevue Township/Eaton**
Michigan Building Code
Proposed Ordinance
Inspector/Plan Reviewer: Curtis Stowe (Registration No. 000792)
Previously county enforced

14. **E-08-08** **Bellevue Township/Eaton**
Michigan Electrical Code
Proposed Ordinance
Inspector/Plan Reviewer: Roy F. Brimmer (Registration No. 004559)
Previously county enforced

15. **M-08-12** **Bellevue Township/Eaton**
Michigan Mechanical Code
Proposed Ordinance
Inspector/Plan Reviewer: Wayne Blossey (Registration No. 004191)
Previously county enforced

16. **P-08-15** **Bellevue Township/Eaton**
Michigan Plumbing Code
Proposed Ordinance
Inspector/Plan Reviewer: Wayne Blossey (Registration No. 004191)
Previously county enforced

RECOMMENDATION: It is the recommendation of staff that the units of government listed be approved to administer and enforce the codes in accordance with their applications for approval, and receipt of certified ordinances.

SDF/jlp



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
ACTING DIRECTOR

DOCUMENT #08-28b

April 18, 2008

TO: Members of the Construction Code Commission

FROM: Scott D. Fisher, Director
Office of Local Government and Consumer Services

SUBJECT: Application for Approval to Administer and Enforce a Code

The following units of government have submitted applications for approval to administer and enforce the Michigan codes, along with the appropriate ordinances:

1. **B-08-03** **Garfield Township/Newaygo**
Michigan Building Code
Ordinance #3-11-08-2; Adopted 3/11/2008
Inspector/Plan Reviewer: Duane H. Cruzan (Registration No. 001235)
Previously county enforced
2. **M-08-05** **Garfield Township/Newaygo**
Michigan Mechanical Code
Ordinance #3-11-08-3; Adopted 3/11/2008
Inspector/Plan Reviewer: Greg Streichhirsh (Registration No. 004432)
Previously county enforced
3. **P-08-06** **Garfield Township/Newaygo**
Michigan Plumbing Code
Ordinance #3-11-08-1; Adopted 3/11/2008
Inspector/Plan Reviewer: Fred Inman (Registration No. 005524)
Previously county enforced
4. **M-08-06** **Sherman Township/Newaygo**
Michigan Mechanical Code
Ordinance #35; Adopted 3/3/2008
Inspector/Plan Reviewer: Greg Streichhirsh (Registration No. 004432)
Previously county enforced
5. **P-08-07** **Sherman Township/Newaygo**
Michigan Plumbing Code
Ordinance #36; Adopted 3/3/2008
Inspector/Plan Reviewer: Fred Inman (Registration No. 005524)
Previously state enforced

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6. **E-08-03** **City of Hudson/Lenawee**
Michigan Electrical Code
Ordinance #370-05; Adopted 4/5/2005
Inspector/Plan Reviewer: Mark Fish (Registration No. 005203)
Previously state enforced
7. **M-08-07** **City of Hudson/Lenawee**
Michigan Mechanical Code
Ordinance #370-05; Adopted 4/5/2005
Inspector/Plan Reviewer: Robert Stephenson (Registration No. 005306)
Previously state enforced
8. **P-08-10** **City of Hudson/Lenawee**
Michigan Plumbing Code
Ordinance #370-05; Adopted 4/5/2005
Inspector/Plan Reviewer: Robert Stephenson (Registration No. 005306)
Previously state enforced
9. **B-08-04** **Lincoln Township/Newaygo**
Michigan Building Code
Ordinance #08-02; Adopted 3/20/2008
Inspector/Plan Reviewer: Duane Cruzan (Registration No. 001235)
Previously county enforced
10. **E-08-04** **Lincoln Township/Newaygo**
Michigan Electrical Code
Ordinance #08-03; Adopted 3/20/2008
Inspector/Plan Reviewer: Maurice VanNevel (Registration No. 004915)
Previously county enforced
11. **M-08-08** **Lincoln Township/Newaygo**
Michigan Mechanical Code
Ordinance #08-04; Adopted 3/20/2008
Inspector/Plan Reviewer: Greg Streichhirsch (Registration No. 004432)
Previously county enforced
12. **P-08-11** **Lincoln Township/Newaygo**
Michigan Plumbing Code
Ordinance #08-05; Adopted 3/20/2008
Inspector/Plan Reviewer: Fred Inman (Registration No. 005524)
Previously state enforced
13. **P-08-09** **Sturgis Township/St. Joseph**
Michigan Plumbing Code
Ordinance #2008-1; Adopted 2/4/2008
Inspector: John Dobberteen (Registration No. 004925)
Previously state enforced

14. **M-08-03** **Arlington Township/VanBuren**
Michigan Mechanical Code
Ordinance #30; Adopted 2/20/2008
Inspector/Plan Reviewer: Walter L. DeVisser, Sr. (Registration No. 003684)
Previously state enforced

RECOMMENDATION: It is the recommendation of staff that the units of government listed be approved to administer and enforce the codes in accordance with their applications for approval, and certified ordinances.

SDF/jlp



JENNIFER M. GRANHOLM
GOVERNOR

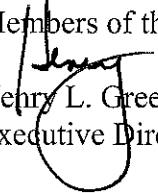
STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 26, 2008

DOCUMENT NO. 08-37

TO: Members of the Construction Code Commission

FROM:  Henry L. Green, Hon. AIA
Executive Director

SUBJECT: City of Hamtramck/Wayne County
Summary Report PE 06-036

Attached is a summary report of the performance evaluation of the City of Hamtramck/Wayne County.

The information provided in the summary report reveals that the City has responded satisfactorily to each of the recommendations enumerated in the performance evaluation report.

Recommendation: Based on the attached summary report, it is the recommendation of staff to close the performance evaluation report.

HLG/ms

Attachment

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**City of Hamtramck/Wayne County
Summary Report
PE 06-036**

The performance evaluation for the City of Hamtramck was conducted on July 17, 2007, and a re-evaluation of the City's code enforcement program was conducted on March 25, 2008.

The following summary report provides the recommendations from the performance evaluation report submitted to the Commission, the City's response to the recommendations, and the Bureau's analysis of the City's response.

1. Recommendation

The City shall prepare a report listing the inspection performed by the unregistered inspector, and shall conduct re-inspections of the permits to verify that the work complete under all the permit complies with code. The City shall provide the inspection list report to the Bureau within 60 days of approval of this report, and shall provide a status report to the Bureau every 30 days detailing the City's progress until all inspections have been completed.

Response/Analysis

The City has provided status reports detailing the City's progress on completing the inspections performed by the unregistered inspector. As indicated within the final status report, the City has completed all the re-inspections as recommended. Therefore, it has been verified that the City has complied with Recommendation No. 1.

2. Recommendation

The City shall develop and maintain a written procedure outlining the requirement for the submission of full and detailed sets of plans from applicants prior to permit issuance and shall provide a copy of the written procedure to the Bureau within 60 days of approval of this report.

Response/Analysis

The City has provided the Bureau with the written procedure to require the submission of full and detailed sets of plans from applicants prior to permit issuance. During the re-evaluation it was verified that the City is consistently utilizing the procedure as recommended. Therefore, it has been confirmed that the City has complied with Recommendation No. 2.

3. Recommendation

The City shall develop and consistently utilize proper plan review procedures and plan review record keeping procedures and shall provide the Bureau with a copy of those procedures within 60 days of approval of this report.

Response/Analysis

The City has provided a written set of plan review procedures and plan review record-keeping procedures to the Bureau, as recommended. The City has also provided a copy of its plan review checklist that has been modeled upon the State's plan review checklist form. Additionally, during the re-evaluation, it was verified that the City is utilizing the plan review checklist and is maintaining the checklist within respective master permit files. Therefore, it has been confirmed that the City has complied with Recommendation No. 3.

4. Recommendation

The City shall develop and maintain a policy for the thorough review of building and trade permit application forms and accompanying plans when applicable and shall provide the Bureau with a copy of the policy and review procedures within 60 days of approval of this report

Response/Analysis

The City has provided a written policy and procedure addressing the requirements for the complete and thorough review of permit application forms prior to permit issuance as recommended. During the reevaluation, it was verified that the City has implemented and is consistently utilizing the proper procedures. Therefore, it has been confirmed that the City has complied with Recommendation No. 4.

5. Recommendation

The City shall provide a written set of procedures governing its Construction Board of Appeals and shall provide the names and qualifications of the members of its board of appeals to the Bureau within 60 days of approval of this report.

Response/Analysis

The City has provided the Bureau with a written set of procedures to govern its Construction Board of Appeals, and has provided the names and qualifications of the members of its board of appeals as recommended. Therefore, it has been confirmed that the City has complied with Recommendation No. 5.

6. Recommendation

The City shall develop and consistently utilize a written set of procedures to monitor open permits, follow up on required inspections and corrections for projects under construction within the City and provide a copy of its procedures to the Bureau within 60 days of approval of this report.

Response/Analysis

The City has provided a written set of procedures to address open permits and required inspections as recommended. During the re-evaluation, it was confirmed that the City is utilizing its procedures. Therefore, it has been verified that the City has complied with Recommendation No. 6.

7. Recommendation

The City shall provide a copy of its building and trade permit forms and shall provide a written set of inspection procedures that directs it's inspectors to utilize a permit form when performing inspections to the Bureau within 60 days of approval of this report.

Response/Analysis

The City has provided copies of its permit forms, and a written set of procedures directing the City's inspectors to utilize a permit form when performing inspections as recommended. During the evaluation, it was verified that the City's inspectors are utilizing the procedures and the permit form during inspections. Therefore, it has been confirmed that the City has complied with Recommendation No. 7.

8. Recommendation

The City shall develop and maintain inspection procedures directing the City's inspectors to utilize and submit formal written inspection reports that include the date the inspection was performed, the type of inspection performed, and that bear the true signature of the inspector performing the inspection. The City shall provide a copy of its inspection report form and its code violation notice form to the Bureau within 60 days of approval of this report.

Response/Analysis

The City has provided the Bureau with a copy of its inspection procedures, its inspection report form and code violation notice form as recommended. During a review of random project files conducted during the re-evaluation, it was verified that the City's inspectors are utilizing the proper forms and procedures. Therefore, it was confirmed that the City has complied with Recommendation No. 8.

9. Recommendation

The City shall develop and maintain proper building department record keeping procedures that comply with the Act and shall provide the Bureau with a written set of the procedures within 60 days of approval of this report.

Response/Analysis

The City has provided the Bureau with a written set of building department record keeping procedures as recommended. During the re-evaluation, it was confirmed that the City has implemented and is consistently utilizing the record keeping procedures. Therefore, it has been confirmed that the City has complied with Recommendation No. 9.

HLG/ms



JENNIFER M. GRANHOLM
GOVERNOR

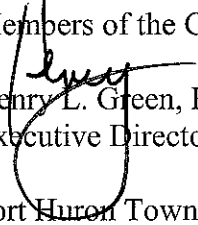
STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

April 4, 2008

DOCUMENT NO. 08-38

TO: Members of the Construction Code Commission

FROM:  Henry L. Green, Hon. AIA
Executive Director

SUBJECT: Port Huron Township/St. Clair County
Summary Report PE 07-046

Attached is a summary report of the performance evaluation of Port Huron Township/St. Clair County.

The information provided in the summary report reveals that the Township has responded satisfactorily to each of the recommendations enumerated in the performance evaluation report.

Recommendation: Based on the attached summary report, it is the recommendation of staff to close the performance evaluation report.

HLG/ms

Attachment

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**Port Huron Township/St. Clair County
Summary Report
PE 07-046**

The performance evaluation for Port Huron Township was conducted on May 23, 2007, and a re-evaluation of the Township's code enforcement program was conducted on April 1, 2008.

The following summary report provides the recommendations from the performance evaluation report submitted to the Commission, the Township's response to the recommendations, and the Bureau's analysis of the Township's response.

1. Recommendation

The Township shall provide a report detailing the establishment and utilization of a master project file record keeping system to the Bureau within 60 days of approval of this report.

Response/Analysis

The Township has provided a written report and has established and is utilizing a master project file recordkeeping system as recommended. Therefore, it has been verified that the Township has complied with Recommendation No. 1.

2. Recommendation

The Township shall provide a written procedure outlining the requirement for the submission of full and detailed sets of plans from applicants prior to permit issuance to the Bureau within 60 days of approval of this report.

Response/Analysis

The Township has provided the Bureau with the written procedure and is consistently utilizing the procedure as recommended. Therefore, it has been verified that the Township has complied with Recommendation No. 2.

3. Recommendation

The Township shall develop and maintain proper plan review procedures and plan review record keeping procedures and shall provide the Bureau with a copy of its procedures within 60 days of approval of this report.

Response/Analysis

The Township has provided a written set of plan review procedures and plan review recordkeeping procedures to the Bureau, as recommended. The Township has also provided a copy of its plan review checklist that has been modeled upon the State's plan review checklist form. Additionally, during the reevaluation, it was confirmed that the

Port Huron Township
Summary Report
Page 2

Township is utilizing the plan review checklist and is maintaining the checklist within respective master permit files. Therefore, it has been verified that the Township has complied with Recommendation No. 3.

4. Recommendation

The Township shall provide the Bureau with copies of its proposed electrical, mechanical, and plumbing permit application forms and permit forms that contain language prescribed by the Commission and complies with law, and provide a copy of a permit application form review procedure within 60 days of approval of this report.

Response/Analysis

The Township has provided copies of its electrical, mechanical, and plumbing permit application and permit forms and has provided a written procedure addressing the requirement for the complete and thorough review of permit application forms prior to permit issuance as recommended. During the reevaluation, it was confirmed that the Township has implemented and is consistently utilizing the proper procedures and forms. Therefore, it has been verified that the Township has complied with Recommendation No. 4.

5. Recommendation

The Township shall provide a written set of procedures governing its Construction Board of Appeals and shall provide the names and qualifications of the members of its board of appeals to the Bureau within 60 days of approval of this report.

Response/Analysis

The Township has provided the Bureau with a written set of procedures to govern its Construction Board of Appeals, and has provided the names and qualifications of the members of its board of appeals as recommended. Therefore, it has been verified that the Township has complied with recommendation No. 5.

6. Recommendation

The Township shall provide a written set of procedures to monitor open permits and projects under construction within the Township to the Bureau within 60 days of approval of this report.

Response/Analysis

The Township has provided the Bureau with a written set of procedures addressing the requirement for thorough and periodic inspections for projects under construction within

the Township, as recommended. Therefore, it has been verified that the Township has complied with Recommendation No. 6.

7. Recommendation

The Township shall develop and maintain inspection procedures directing the Township's inspectors to utilize and submit formal written inspection reports that include the date the inspection was performed, the type of inspection performed, and that shall bear the true signature of the inspector performing the inspection. The Township shall provide a copy of its inspection report form and a written set of inspection procedures to the Bureau within 60 days of approval of this report.

Response/Analysis

The Township has provided the Bureau with a written set of field inspection procedures and has provided a copy of its inspection report form and code violation notice form as recommended. During the evaluation, it was verified that the Township's inspectors are utilizing the procedures and the inspection report form and code violation form. Therefore, it has been verified that the Township has complied with Recommendation No. 7.

8. Recommendation

The Township shall develop and maintain a written set of procedures addressing building and trade permits that remain open past code provisions including uncorrected code violations within Port Huron Township. The Township shall provide a copy of its written procedure addressing permits within the Township that remain open beyond code provisions to the Bureau within 60 days of approval of this report.

Response/Analysis

The Township has provided the Bureau with a written set of procedures addressing open permits including uncorrected code violations as recommended. Additionally, the Township has provided a copy of its permit status notification letter that directs permit holders to request inspections within a specified time frame to correct violations of the code. During the reevaluation, it was verified that the Township is consistently utilizing its procedures and notification program to address open permits within the Township. Therefore, it has been verified that the Township has complied with Recommendation No. 8.

9. Recommendation

The Township shall consider the adoption of an ordinance to designate violations of the code as municipal civil infractions in order to address violations of the code that remain uncorrected after official notification. The Township shall provide a copy of the ordinance to the Bureau within 60 days of approval of this report.

Response/Analysis

During the re-evaluation, the Township provided the Bureau with a copy of its ordinance that designates violations of the code as civil municipal infractions as recommended. The Township has begun utilizing the provisions of the ordinance to address uncorrected violations of the code. Therefore, it has been verified that the Township has complied with Recommendation No. 9.

HLG/ms



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

DOCUMENT #08-29

April 18, 2008

TO: Members of the Construction Code Commission

FROM: Scott D. Fisher, Director
Office of Local Government and Consumer Services

SUBJECT: Continuing Education Program Applicants

The programs listed on the attached pages are those for which approval has been requested by providers or sponsors of continuing education programs required of building officials, inspectors, and plan reviewers to renew their registrations. Document #08-29 is a list of programs that have been submitted for approval for the cycle beginning September 17, 2006 through September 16, 2009.

Each provider has documented appropriate content in relation to one or more of the continuing education categories and registrant classifications set forth in the administrative rules promulgated pursuant to 1986 PA 54.

It is the recommendation of Bureau staff that the programs submitted pursuant to the provisions of Act 54 be approved by the Commission.

SDF/kld

Attachments

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Explanatory notes to accompany BCC 2008 Approved Continuing Education Program List:

DOCUMENT #08-29

* Registrants holding one or more Inspector classification are required to attend Technical and Specialty training to be eligible for reregistration at the end of the present code cycle. If that is successfully accomplished, there are no additional Technical or Specialty credits necessary to also become eligible for reregistration as either a Building Official and/or Plan Reviewer. A person who is registered **only** as a Building Official and/or Plan Reviewer **without any Inspector classification** will receive the listed Technical and/or Specialty credit towards reregistration qualification for attending this program.

Specialty approvals are granted for one of the four Inspector (trade) classifications. Inspectors receive credits only for attending programs associated with their trade; a Mechanical Inspector does not satisfy those requirements by attending a Building, Electrical or Plumbing program. Someone registered **only** as a Building Official and/or Plan Reviewer **without any Inspector classification** will receive credit for all Specialty programs attended, regardless of the trade(s).

Technical approvals are granted for programs addressing a specific code. Inspectors receive Technical credit only for programs addressing the code they enforce. Someone registered **only** as a Building Official and/or Plan Reviewer without any Inspector classification will receive credit for all Technical programs in **their cycle** which they attended, regardless of the trade.

** Programs approved for Plan Review credits satisfy unique requirements placed on Plan Reviewer registrants. Even though the title of an individual program may refer to a specific trade or code, all Plan Review program credits apply to any Plan Reviewer.

**** Credit for documented participation in/attendance at formal code change hearings conducted and reported by a nationally recognized code-promulgating organization will be recognized when the subject is a code enforced by the registrant. Credit is granted in one-hour increments and is divided between Technical and Specialty. The first hour is Technical, the second Specialty, the third Technical, the fourth Specialty, etc. Seven hours would be credited as four Technical and three Specialty, for example.

ISC = Independent Study Course

I = Internet Course

Department of Labor and Economic Growth-Bureau of Construction Codes-2006/2009 Inspector Continuing Education Programs

Program Number	Credit Hours					Contact	Organization	Phone	Title	
	Admin	Comm	Spec	Tech	PR					Classification
14085					2	PR**	William Moy	MMIA	(248) 649-5443	Building Sprinkler Systems
14086					2	PR**	William Moy	MMIA	(248) 649-5443	Hood Fire Suppression Systems
14087				4		MI*	Vernon Pappas	MMIA	(248) 649-5443	Fire & Smoke Damper Installations
14088				3		BI*	Peter J. Loughney	The International Masonry Institute	(734) 944-7766	Masonry Code Requirements of the 2003 Michigan Residential Code
14089	3					ALL	Kimberly Riley	International Code Council	(888) 422-7233	2008 Webinar-Inspection Concerns: Gathering Evidence and the Right of Entry
14090			3			BI*	Kimberly Riley	International Code Council	(888) 422-7233	2008 Webinar-2006 IBC Mixed Occupancies, A Design Option
14091			3			BI*	Kimberly Riley	International Code Council	(888) 422-7233	2008 Webinar-2006 IRC Wall Bracing
14092			3			BI*	Melvin T. Stenberg	U. P. Concrete Co.	(906) 466-7460	An Introduction to Insulated Concrete Forms
14093			1			BI*	Trish Kutz	WTCA	(608) 310-6768	Overview of the Building Component Safety Information Booklet, BCSI 2006
14094			1			BI*	Trish Kutz	WTCA	(608) 310-6768	How to Read Truss Documentation
14095			1			BI*	Trish Kutz	WTCA	(608) 310-6768	Framing the American Dream
14096			1			BI*	Trish Kutz	WTCA	(608) 310-6768	Storage, Handling, Installing, and Bracing of Metal Plate Connected Wood Trusses
14097	1		1			ALL	James A. Ostrowski	Michigan DEQ	(517) 241-8057	Environmental Awareness: What Every Building Official Should Know (One Time Only)
14098			2			PI*	Ronald L. George	Ron George Design & Consulting Services	(734) 322-0225	Commercial Kitchen Plumbing
14099				4		PI*	Ronald L. George	Ron George Design & Consulting Services	(734) 322-0225	Sanitary Drainage and Venting
14100			1			EI*	George H. Little	IAEI-Michigan Chapter	(248) 933-1139	Sanitary Drainage Systems The Basics of Branch Circuit Testing (One Time Only)
14101		2				EI*	George H. Little	IAEI-Michigan Chapter	(248) 933-1139	Organizational Communication (One Time Only)

Department of Labor and Economic Growth-Bureau of Construction Codes-2006/2009 Inspector Continuing Education Programs

14102			2		El*	George H. Little	IAEL-Michigan Chapter	(248) 933-1139	Establishing Electrical Safety (One Time Only)
14103				1	El*	George H. Little	IAEL-Michigan Chapter	(248) 933-1139	Ashrae Standards (One Time Only)
14104			1		El*	George H. Little	IAEL-Michigan Chapter	(248) 933-1139	Lighting Controls (One Time Only)
14105				2	El*	George H. Little	IAEL-Michigan Chapter	(248) 933-1139	Electrical Code Panel: Questions & Answers (One Time Only)
14106			1		El*	George H. Little	IAEL-Michigan Chapter	(248) 933-1139	The Basics of Power Quality (One Time Only)
14107				7	BI*, MI*	Renee McDonough	Michigan Code Consultants, LLC	(586) 219-9942	Fire & Smoke Dampers-Location & Requirements & Installation
14108				6	PR**	Renee McDonough	Michigan Code Consultants, LLC	(586) 219-9942	Residential Plan Review
14109				5	PI*	James R. Russell	Tri-County Plumbing Inspectors Association	(248) 546-2616	2006 Michigan Plumbing Code Update (One Time Only)
14110				2	PI*	James R. Russell	Tri-County Plumbing Inspectors Association	(248) 546-2616	2006 Michigan Plumbing Code Roundtable (One Time Only)
14111			1	1	El*	Ken Davis		(616) 560-0804	Emergency Systems-Legally Required Standby Systems-Optional Standby Systems
14112			5	3	BI*, El*	Philip Clark	Reciprocal Electrical Council, Inc.	(248) 542-7567	8 Hour Code Update on Signs (One Time Only)
14113			1		BI*, El*	Philip Clark	Reciprocal Electrical Council, Inc.	(248) 542-7567	Spas and Hot Tubs plus Article 682 (One Time Only)
14114			1		BI*, El*	Philip Clark	Reciprocal Electrical Council, Inc.	(248) 542-7567	Swimming Pool Inspections (One Time Only)
14115			4		ALL	Patricia Gamin/Beth Aben	DLEG-Human Resources/BCC	(517) 335-2972	BCC Inspection Techniques (One Time Only)
14116				4	BI*, ALL	Laura M. Morillo	Hilti, Inc	(703) 622-6372	Building Codes and Post-Installed Anchors (One Time Only)
14117	3				ALL	Tom J. Swindlehurst	MIOSHA-CET	(517) 322-1809	Safety Awareness for Construction (One Time Only)
14118			2		MI*	Garry VanDenBerg	MIAM	(248) 649-5443	Mechanical Draft & Venting
14119				3	PR**	James R. Schiffliti	Fire Safety Consultants, Inc.	(847) 697-1300	Plan Review of Gas Suppression and Kitchen Hood Extinguishing Systems

Department of Labor and Economic Growth-Bureau of Construction Codes-2006/2009 Inspector Continuing Education Programs

14120				3	MI*	Mark Riley	MMIA	(248) 549-5443	Michigan Mechanical Code and International Fuel Gas Code 2006 Updates
14121	4				ALL	Henry L. Green	DLEG-BCC-Administration	(517) 241-9302	Administrative Enforcement of Codes (One Time Only)
14122			2		PI*	Warren M. Wisner	SEMPIA	(734) 475-2425	Back Water Valve Requirements
14123				3	PI*	Warren M. Wisner	SEMPIA	(734) 475-2425	Water Supply & Distribution/Sanitary Drainage
14124				3	MI*	Warren M. Wisner	SEMPIA	(734) 475-2425	Boilers & Piping
14125	2				ALL	William F. Fox	DLEG-BCC-Electrical Division	(517) 241-9320	Systematic Inspections
14126				2	EI*	William F. Fox	DLEG-BCC-Electrical Division	(517) 241-9320	Electric Fire Pumps 695
14127	3				ALL	Henry L. Green	DLEG-BCC-Administration	(517) 241-9302	Administrative Enforcement of Codes (One Time Only)
14128	1			3	BI*, ALL (Admin Only)	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	2006 International Building Code
14129		1	3		BI*, ALL (Comm Only)	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	Commercial Inspections
14130				4	EI*	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	2005 Michigan Electrical Code
14131	1		3		EI*, ALL (Admin Only)	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	Electrical Field Uses and Methodology
14132	1			3	MI*, ALL (Admin Only)	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	2006 Michigan Mechanical Code-Changes
14133		1	3		MI*, ALL (Comm Only)	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	Mechanical Inspections Techniques

Department of Labor and Economic Growth-Bureau of Construction Codes-2006/2009 Inspector Continuing Education Programs

14134	1			3	PI*, ALL (Admin Only)	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	2006 Michigan Plumbing Code, Chapters 1-4
14135			3	1	PI*, PR**	Curtis E. Stowe	Certified Inspectors Training (CIT)	(248) 624-0570	Field Application -2006 Michigan Plumbing Code
14136			12		BI*	Kimberly Riley	International Code Council	(888) 422-7233	2006 IBC-Performing Commercial Building Inspections
14137				6	PR**	James R. Schiffliti	Fire Safety Consultants, Inc.	(847) 697-1300	Plan Review of Fire Alarms Systems (One Time Only)
14138				1	BI*	Gerald P. Marquette	Hansen Marketing Services, Inc.	(248) 736-8783	Fundamentals of Architectural Acoustics and Noise Control
14139		2			ALL	Jim Morse		(810) 229-0562	Successful Communication between Building and Fire Departments
14140				3	PR**	Kevin R. Roby	Commercial Plan Examiner Network (CPEN)	(248) 347-0479	Significant Changes to the 2003 IBC / Barrier Free Accessibility Based on the 2006 IBC
14141			2	1	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session I
14142			1	1	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session II
14143				2	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session III
14144			1	1	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session IV
14145			1	2	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session V
14146			1	2	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session VI
14147			1	2	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session VII
14148			2	1	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session VIII
14149			2	1	EI*	Jonathan R. Althouse	Michigan State University	(517) 353-4896	Michigan Electrical Code Review- Session IX

Department of Labor and Economic Growth-Bureau of Construction Codes-2006/2009 Inspector Continuing Education Programs

[illegible]



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

DOCUMENT #08-30

April 18, 2007

TO: Members of the Construction Code Commission

FROM: Scott D. Fisher, Director
Office of Local Government and Consumer Services

SUBJECT: Continuing Education Instructor Applications

Attached is a list of those individuals who have applied for approval as instructors of continuing education programs required of building officials, inspectors, and plan reviewers. The instructors listed are approved for the cycle beginning September 17, 2006 through September 16, 2009.

Each has documented training and experience in the topic which they propose to teach.

****There are instructors on both the new and renewal listed that are italicized due to a database error that omitted them from the last document.**

It is the recommendation of Bureau staff that they be approved as instructors by the Commission.

SDF/kld

Attachments

Providing for Michigan's Safety in the Built Environment

BUREAU OF CONSTRUCTION CODES
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Telephone (517) 241-9347 • Fax (517) 241-9308
www.michigan.gov

Department of Labor and Economic Growth-Bureau of Construction Codes-2006/2009 Renewal Instructors

Instructor Number	Last Name	First Name	MI	Affiliation/Experience
88	Hegerle	Henry	A	ICC
141	Surbrook	Truman	C	Michigan State University
162	Negri	John	G	Michigan State University
351	Koster	Thomas	J	iLevel by Weyerhaeuser
714	Aben	Beth		DLEG-BCC-OAS
749	Asch	Howard	J	City of East Lansing
1036	Althouse	Jonathan	R	Michigan State University
1078	Elliott	Patrick		
1135	Decker	Allen	R	A. R. Decker & Associates
1421	Gross	John	M	Eaton County Inspector
1534	Ernst	John	G	

Department of Labor and Economic Growth-Bureau of Construction Codes-2006/2009 New Instructors

Instructor Number	Last Name	First Name	MI	Affiliation/Experience
1756	Meyer	Thomas		Colorado Code Consulting
1757	Howard	Eli		MMIA
1758	Bayer	Frank	J	Michigan Code Consultants
1759	Surrena	Donald		ICC
1760	Colon-Mercado	Miguel	A	Michigan Association of Housing Officials
1761	Deisler	Gordon	L	
1762	Olsen	Warren		Fire Safety Consultants, Inc.
1767	Loughney	Peter	J	International Masonry Institute
1768	Stenberg	Melvin	T	UP Concrete Co
1769	Ostrowski	James	A	Michigan DEQ
1770	Anderson	Isolde	K	IAEI-Michigan Chapter
1771	Reside	Kevin	D	IAEI-Michigan Chapter
1772	Martin	John	C	IAEI-Michigan Chapter
1773	Burke	Arthur	R	IAEI-Michigan Chapter
1774	LaBrenz	Donald	L	IAEI-Michigan Chapter
1775	Gamin	Patricia		DLEG-Human Resources
1776	Morillo	Laura	M	Hilti, Inc.
1777	Swindlehurst	Tom	J	MIOSHA-CET
1778	Lutz	Robert	J	Monsma Marketing Corp.
1779	Karren	Kenneth	W	ICC
1780	Galford	James	A	Certified Inspectors Training
1781	Mattar	Fady		ICC
1782	Filipiak	David	A	Michigan State University
1783	Owen	Gary		Cornell Iron Works
1784	Elliott	Robert	L	Electrical Education Connection
1785	Shaw	Clinton	T	Clark Western Building Systems
1786	Hall	David	L	Air Products & Controls, Inc.
1787	Holmes	Dann	E	Viega, LLC
1788	Hill	Sybil	C	Metropolitan Alternative Energy



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

Document #08-31a-d

April 18, 2008

TO: Members of the Construction Code Commission

FROM: Scott D. Fisher, Director
Office of Local Government and Consumer Services

SUBJECT: Inspector Registration Applicants

Attached you will find lists of applicants for provisional registration as building officials, building inspectors, plan reviewers, and mechanical inspectors. Document #08-31a, b, and c, are lists of applicants for provisional registration as building officials, building inspectors, and plan reviewers. Document #08-31d is an applicant for provisional registration as a mechanical inspector presented to the Board of Mechanical Rules on March 19, 2008.

SDF/jlp

Attachments

Providing for Michigan's Safety in the Built Environment

BUREAU OF CONSTRUCTION CODES
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Phone (517) 241-9347 • Fax (517) 241-9308
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BUILDING OFFICIALS

05/07/08 ccc

BEATTY, David J.
Registered as Plan Reviewer (5/2006)
Additional Building Official
City of Southgate – Wayne County

BRICKER, Michael R.
Registered as Electrical Inspector/Plan Reviewer (1/2000)
Additional Building Official
Worth Township – Sanilac County

BURNS, Steven J.
Registered as Building Inspector/Plan Reviewer (11/2000)
Replacing Seymour Zate (Registration #003313)
West Bloomfield Township – Oakland County

COLE, Ronald D.
Registered as Building Inspector/Plan Reviewer (1/1995)
Replacing Duane H. Cruzan (Registration #001235)
Newaygo County

FLORY, Kevan D.
Registered as Building Inspector/Plan Reviewer (9/2004)
Replacing Robert E. Meden (Registration #000468)
Cheboygan County

ISRAEL, Timothy P.
Registered as Mechanical, Plumbing Inspector/Plan Reviewer (9/2000)
Additional Building Official
Almont Township – Lapeer County

NEWMAN, Troy L.
Registered as Building Inspector/Plan Reviewer (3/2006)
Additional Building Official
City of River Rouge – Wayne County

STARLING, Richard
Registered as Building Inspector/Plan Reviewer (5/1995)
Additional Building Official
City of Northville – Wayne County

BUILDING INSPECTORS

05/07/08 ccc

COOK, Raynard
9,776+ hours as Carpenter
Additional Inspector
City of Detroit – Wayne County

GEELHOED, Ronald R.
Residential Builders License #2101081772 (7/1988)
13,758+ hours as Carpenter
City of Grand Rapids – Kent County

PALMER, Bruce R.
Residential Builder License #2101062350 (7/1982)
28,600+ hours as Carpenter
Additional Inspector
Bridgeport Township – Saginaw County

ROBSON, James W.
9,730+ hours as Carpenter
Additional Inspector
Grayling Township – Crawford County

ROSIN, Jeffrey G.
Residential Builder License #2101082067 (8/1988)
15,808+ hours as Carpenter
Additional Inspector
City of Allen Park – Wayne County

TILMANN, Robert J.
Residential Builder License #2101070279 (5/1985)
9,152+ hours as Carpenter
Replacing James Chaney (Registration #003094)
Deerfield Township – Isabella County

PLAN REVIEWERS

05/07/08 ccc

BELLAIRE, Ronald C.
Registered as Electrical Inspector #004962 (5/2003)
Additional Plan Reviewer
Howard Township – Cass County

COOK, Raynard
9,776+ hours as Carpenter
Additional Plan Reviewer
City of Detroit – Wayne County

DOBBERTEEN, John L.
Registered as Plumbing Inspector #004925 (3/2003)
Additional Plan Reviewer
City of New Buffalo – Berrien County

HYDER, William A.
Registered as Electrical Inspector #004244 (5/1999)
Additional Plan Reviewer
City of Lapeer – Lapeer County

PALMER, Bruce R.
Residential Builder License #2101062350 (7/1982)
28,600+ hours as Carpenter
Additional Plan Reviewer
Bridgeport Township – Saginaw County

ROBSON, James W.
9,730+ hours as Carpenter
Additional Plan Reviewer
Grayling Township – Crawford County

ROSIN, Jeffrey G.
Residential Builder License #2101082067 (8/1988)
15,808+ hours as Carpenter
Additional Plan Reviewer
City of Allen Park – Wayne County

TILMANN, Robert J.
Residential Builder License #2101070279 (5/1985)
9,152+ hours as Carpenter
Replacing James Chaney (Registration #003094)
Deerfield Township – Isabella County

Document #08-31d

MECHANICAL INSPECTORS

03/19/08 bmr

05/07/08 ecc

SMITH, Jeffrey A.
Contractor License #7115731
Classifications 2 & 5
8,000+ hours HVAC
Huron County



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 28, 2008

DOCUMENT #08-32

TO: Members of the Construction Code Commission
FROM: Robert G. Konyndyk, Chief, Plumbing Division *RHK*
SUBJECT: Approval of American Pipe Lining, Inc., APL-2000 Epoxy Pipe Coating Material

The applicant has requested consideration through approval clarification for a product which does not have an installation or performance standard referenced in the code. The product was developed for and used extensively by the United States Navy ship board water distribution repairs rather than entire system replacements.

APPLICANT REPRESENTATIVE:

Mr. Peter J. Wood

APPLICANT:

American Pipe Lining – Great Lakes Inc.
31675 W. Eight Mile Rd.
Livonia, Michigan 48152

AUTHORITY:

Section 21 of Act 230, 1972 being section 125.1521 of the Michigan Compiled Laws.

PRODUCT:

American Pipe Lining, Inc., APL-2000 Epoxy Pipe Coating Material, water pipe lining system.

APPLICATION:

Barrier coating used as a form of corrosion control that is applied to the interior of water delivery systems ½ inch and greater.

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Members of the Construction Code Commission
Page 2
March 28, 2008

APPLICABLE CODE SECTION:

Section 605.4 Water Distribution Pipe

LABORATORY TEST / LISTING:

NSF 61 listing enclosed.

CONDITIONS OF USE AND INSTALLATION:

1. All requirements of the Michigan Plumbing codes shall be applicable.
2. Installations shall be in accordance with the manufacturers specifications.

RECOMMENDATION:

The product was recommended to the commission for approval by the State Plumbing Board at their March 18, 2008 board meeting.

RGK/mkr

Approved

Petition Application for Approval of Material, Product, or Method
Michigan Department of Labor & Economic Growth
Bureau of Construction Codes & Fire Safety
P.O. Box 30255
Lansing, MI 48909

Agency Use Only

Application Fee: \$500.00

Authority: 1972 PA 230
Completion: Mandatory
Penalty: Use of material, product, or method will not be approved

The Department of Labor & Economic Growth will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency.

04107106
\$500
BCCP06-010

PRODUCT INFORMATION

Nature of Application

☒ Material

☐ Product

☐ Method of Manufacture or Construction

☐ Component

Code Under Which Approval Is Sought

☐ Building (140)

☐ Electrical (115)

☐ Mechanical (130)

☒ Plumbing (98)

Name of Material, Product or Method of Manufacture (limit to one item per application)

PROTECTIVE BARRIER WATER CONTACT MATERIAL

Other Identification (Model Number)

APL-2000 EPOXY PIPE COATING

Trans Info: 98 11725074-1 04/27/06

Chk#: 9668 Amt: \$500.00

ID: PETE WOOD PLUMBING & HEATING CO

Description (use additional sheets if necessary)

2 PART EPOXY, MIX RATIO OF A:B IS 68:32, PART A IS THE BASE RED RESIN
COLORS: RED OXIDE, 7-9 MILS PER COAT, PART B IS THE CLEAR HARDENER

Intended Use (use additional sheets if necessary)

APPLIED TO INTERIOR OF PIPING SYSTEM TO SEAL AND PROTECT FROM
FURTHER DETERIORATION AND DRAMATICALLY EXTEND SYSTEMS LIFE.

Data Submitted

☐ Letter

☐ Manual

☒ Standards NSF/ANSI 61

☒ Installation Instructions

☐ Display Catalog

Reports

☐ ICC - NES

☐ BOCA - NES

☐ ICBO

☐ SBCC

☐ NRB

☐ Other

☒ Product Sample or Model

☒ Prior Approvals by Other Agencies

☐ Recommendations by Model Code Bodies

Laboratory Test By

NATIONAL SANITATION FOUNDATION NSF/ANSI STANDARD 61

Pilot Service Experience and Conditions (use additional sheets if necessary)

SEE ATTACHED SHEETS OF COMPLETED PROJECT CURRENTLY IN OPERATION

Restrictions for Use (use additional sheets if necessary)

SEE ATTACHED PHYSICAL PROPERTIES - CHEMICAL RESISTANCE SHEET

APPLICANT (Note: All correspondence will be sent to this address)

NAME OF COMPANY

AMERICAN PIPE LINING - GREAT LAKES INC.

APPLICANT NAME

PETER J. WOOD

ADDRESS

31675 W. EIGHT MILE RD.

CITY

LIVONIA

STATE

MI.

ZIP CODE

48152

TELEPHONE NUMBER (Include Area Code)

248.888.7777

APPLICANT SIGNATURE (Must be an original signature)

Peter J. Wood

DATE

4-24-2006

FAX NUMBER (Include Area Code)

248.888.7786



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 28, 2008

DOCUMENT #08-33

TO: Members of the Construction Code Commission
FROM: Robert G. Konyndyk, Chief, Plumbing Division *RMK*
SUBJECT: Precast Concrete 1250 gallon and 1500 gallon Interceptors, Approval Petition

The applicant has requested product approval to provide product acceptance through approval clarification.

APPLICANT REPRESENTATIVE:

Mr. Tim Welsh

APPLICANT:

Mr. Tim Welsh
Watkins & Himelhoch
3159 Bristol Road
Burton, Michigan 48529

AUTHORITY:

Section 21 of Act 230, 1972 being section 125.1521 of the Michigan Compiled Laws.

PRODUCTS:

Precast concrete 1250 gallon and 1500 gallon interceptors.

APPLICATION:

To separate grease and oil from non-sanitary waste

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Members of the Construction Code Commission
Page 2
March 28, 2008

APPLICABLE CODE SECTION:

Section 1003, Interceptors and Separators

TEST REPORTS:

A W.G. Sales vacuum test is referenced in the submission but not provided.

APPROVAL BY OTHER AGENCIES:

None provided however, acceptance by local sewer treatment authorities.

CONDITIONS OF USE AND INSTALLATION:

1. All requirements of the Michigan Plumbing code shall be applicable.
2. Installed in accordance with the manufacturer's installation instructions.

RECOMMENDATION:

The product was recommended to the commission for approval by the State Plumbing Board at their March 18, 2008 board meeting.

RGK/mkr

WATKINS INTERCEPTOR

Petition Application for Approval of Material, Product or Method
Michigan Department of Labor & Economic Growth
Bureau of Construction Codes
P.O. Box 30255, Lansing, MI 48909
www.michigan.gov/bcc

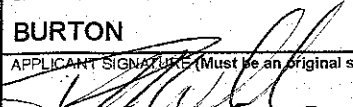
Tran Info: 98 12857943-1 04/24/07
Chk#: 7459 Amt: \$500.00
ID: WATKINS APPL FOR BCC

BCCP-07-008
\$500 Received 04/24/07

Application Fee: \$500.00

Authority: 1972 PA 230 Completion: Mandatory Penalty: Use of material, product or method will not be approved	The Department of Labor and Economic Growth will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency.
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PRODUCT INFORMATION			
NATURE OF APPLICATION			
<input type="checkbox"/> Material	<input checked="" type="checkbox"/> Product	<input type="checkbox"/> Method of Manufacture or Construction	<input type="checkbox"/> Component
CODE UNDER WHICH APPROVAL IS SOUGHT			
<input type="checkbox"/> Building (140)	<input type="checkbox"/> Electrical (115)	<input type="checkbox"/> Mechanical (130)	<input checked="" type="checkbox"/> Plumbing (98)
NAME OF MATERIAL, PRODUCT OR METHOD OF MANUFACTURE (Limit To One Item Per Application)			
INTERCEPTOR/GREASE TRAP			
OTHER IDENTIFICATION (Model Number)			
PRECAST CONCRETE 1250 GALLON & 1500 GALLON (TWO SIZES)			
DESCRIPTION (Use Additional Sheets If Necessary)			
SEE ATTACHED SHOP DRAWINGS			
INTENDED USE (Use Additional Sheets If Necessary)			
TO SEPARATE GREASE AND OIL FROM NON-SANITARY WASTE			
DATA SUBMITTED			
<input checked="" type="checkbox"/> Letter <input type="checkbox"/> Manual <input checked="" type="checkbox"/> Standards <input type="checkbox"/> Installation Instructions <input checked="" type="checkbox"/> Display Catalog	Reports <input type="checkbox"/> ICC - NES <input type="checkbox"/> BOCA - NES <input type="checkbox"/> ICBO <input type="checkbox"/> SBCC <input type="checkbox"/> NRB <input type="checkbox"/> Other	<input type="checkbox"/> Product Sample or Model <input type="checkbox"/> Prior Approvals by Other Agencies <input type="checkbox"/> Recommendations by Model Code Bodies	
LABORATORY TEST BY			
W.G. SALES VACUUM TEST			
PILOT SERVICE EXPERIENCE AND CONDITIONS (Use Additional Sheets If Necessary)			
RESTRICTIONS FOR USE (Use Additional Sheets If Necessary)			

APPLICANT (Note: All correspondence will be sent to this address)			
NAME OF COMPANY		APPLICANT NAME	
WATKINS & HIMELHOCH		TIM WELSH	
ADDRESS			
3159 E. BRISTOL ROAD			
CITY	STATE	ZIP CODE	TELEPHONE NUMBER (Include Area Code)
BURTON	MI	48529	(810) 742-6460
APPLICANT SIGNATURE (Must be an original signature)		DATE	FAX NUMBER (Include Area Code)
		4/13/07	(810) 249-2718



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 28, 2008

DOCUMENT #08-34

TO: Members of the Construction Code Commission
FROM: Robert G. Konyndyk, Chief, Plumbing Division *RAK*
SUBJECT: Eternal Hybrid Water Heater, Models GU 26 and GU 32

The applicant has requested product approval to provide product acceptance through approval clarification.

APPLICANT REPRESENTATIVE:

Mr. Paul Home

APPLICANT:

Mr. Paul Home
Grand Hall USA, Inc.
3838 W. Miller Rd.
Garland, Texas 75041

AUTHORITY:

Section 21 of Act 230, 1972 being section 125.1521 of the Michigan Compiled Laws.

PRODUCT:

Eternal Hybrid Water Heater, Models GU 26 and GU 32

APPLICATION:

This product is designed to supply hot water in both residential and commercial applications from a central location.

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Members of the Construction Code Commission
Page 2
March 28, 2008

APPLICABLE CODE SECTION:

Chapter 5 Water Heaters, MPC
504.4 Relief Valve

2003 Michigan Mechanical Code
Section 1002.1- Listed and Labeled

Chapter 28 Water Heaters, MRC
Sections 2803 Relief Valve
Section 2903 Water Supply Systems

Section G2404.3 – Listed and Labeled
Section G2448.1 – Tested in accordance with
ANSI Z21.10/3

APPROVALS:

CSA – certificate # 1726732, 2007/07/24

CONDITIONS OF USE AND INSTALLATION:

1. All requirements of the Michigan Electrical, Mechanical, and Plumbing Codes shall be applicable.
2. Installed in accordance with manufacturer's installation instructions.
3. An acceptable pressure and temperature protection shall be provided with the correct BTU rating.

RECOMMENDATION:

The product was recommended to the commission for approval by the State Plumbing Board at their March 18, 2008 board meeting.

RGK/mkr

Petition Application for Approval of Material, Product or Method
Michigan Department of Labor & Economic Growth
Bureau of Construction Codes
P.O. Box 30255, Lansing, MI 48909
www.michigan.gov/bcc

Agency Use Only

Application Fee: \$500.00

09/04/07 BCCP-07-014
\$500 Received

Authority: 1972 PA 230
Completion: Mandatory
Penalty: Use of material, product or method will not be approved

The Department of Labor and Economic Growth will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency.

PRODUCT INFORMATION

NATURE OF APPLICATION

☐ Material ☒ Product ☐ Method of Manufacture or Construction ☐ Component

CODE UNDER WHICH APPROVAL IS SOUGHT

☐ Building (140) ☐ Electrical (115) ☐ Mechanical (130) ☒ Plumbing (98)

NAME OF MATERIAL, PRODUCT OR METHOD OF MANUFACTURE (Limit To One Item Per Application)

External Hybrid Water Heater

OTHER IDENTIFICATION (Model Number)

CU26[501(,11,12,21,22)1261] / CU26[501(,11,12,21,22)1321]

DESCRIPTION (Use Additional Sheets If Necessary)

On-demand Gas Water Heaters w/small storage for indoor or outdoor installations, and for use with LP or NG

INTENDED USE (Use Additional Sheets If Necessary)

Domestic Hot Water Supply

DATA SUBMITTED

☒ Letter ☒ Manual ☒ Standards ☒ Installation Instructions ☒ Display Catalog

Reports
☐ ICC - NES
☐ BOCA - NES
☐ ICBO
☐ SBCC
☐ NRB
☒ Other

☐ Product Sample or Model
☐ Prior Approvals by Other Agencies
☒ Recommendations by Model Code Bodies

LABORATORY TEST BY

CSA International - 2805 Barranca Pkwy, Irvine, CA 92606 (949) 733-4300

PILOT SERVICE EXPERIENCE AND CONDITIONS (Use Additional Sheets If Necessary)

Test unit installed since 2005 in Dallas, TX. Installed in 3rd story of 3 story home and installed per manufacturer's instructions. The unit has been performing to expectation. Unit is designed to expel sedimentation from storage and increased frequency in cleaning faucet aerators has therefore been observed.

RESTRICTIONS FOR USE (Use Additional Sheets If Necessary)

Do not install without proper gas and air supply. Proper venting must be installed per manufacturer's instructions.

APPLICANT (Note: All correspondence will be sent to this address)

NAME OF COMPANY

Grand Hall USA, Inc.

APPLICANT NAME

Paul Home

ADDRESS

3838 W. Miller Rd.

CITY

Garland

STATE

TX

ZIP CODE

75041

TELEPHONE NUMBER (Include Area Code)

(214) 550-8032

APPLICANT SIGNATURE (Must be an original signature)

Paul Home

DATE

8/29/2007

FAX NUMBER (Include Area Code)

(972) 279-8440

+ ADVANCED : THE ETERNAL HYBRID SYSTEM

ENGINEERED TO OUT-PERFORM ALL OTHER WATER HEATERS ON THE MARKET

Eternal Hybrid is the only water heating system that combines the best of tank and tankless features in one. The patented, powerful design is engineered to replace multiple tanks, use less energy and space than one tank, while producing endless hot water for multiple applications at once.

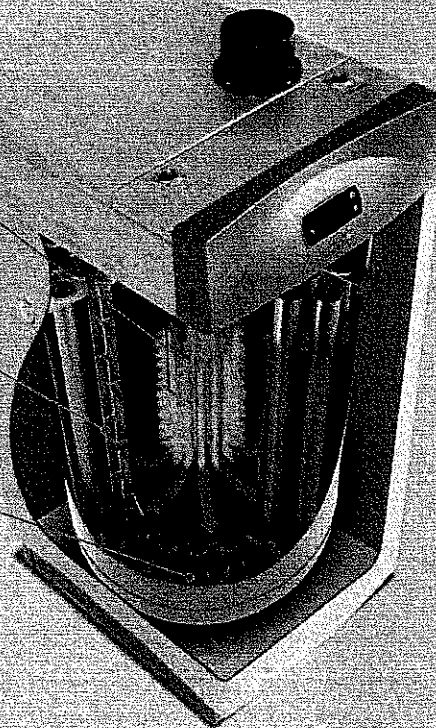
- » Maintains 86% efficiency
- » Built-in reservoir eliminates cold water sandwich and allows you to build a recirculation system with no external electric tank
- » Low exhaust temperature allows Eternal Hybrid to be PVC vented for easier and more economical installs
- » Near zero greenhouse gas emissions means Eternal Hybrid is one of the cleanest burning appliances on the market
- » Stainless steel reserve tank is self cleaning, maintenance free and backed with a lifetime no-leak warranty



+
The modulating burner is triggered by water flow or thermostat, so it only uses gas when it is needed

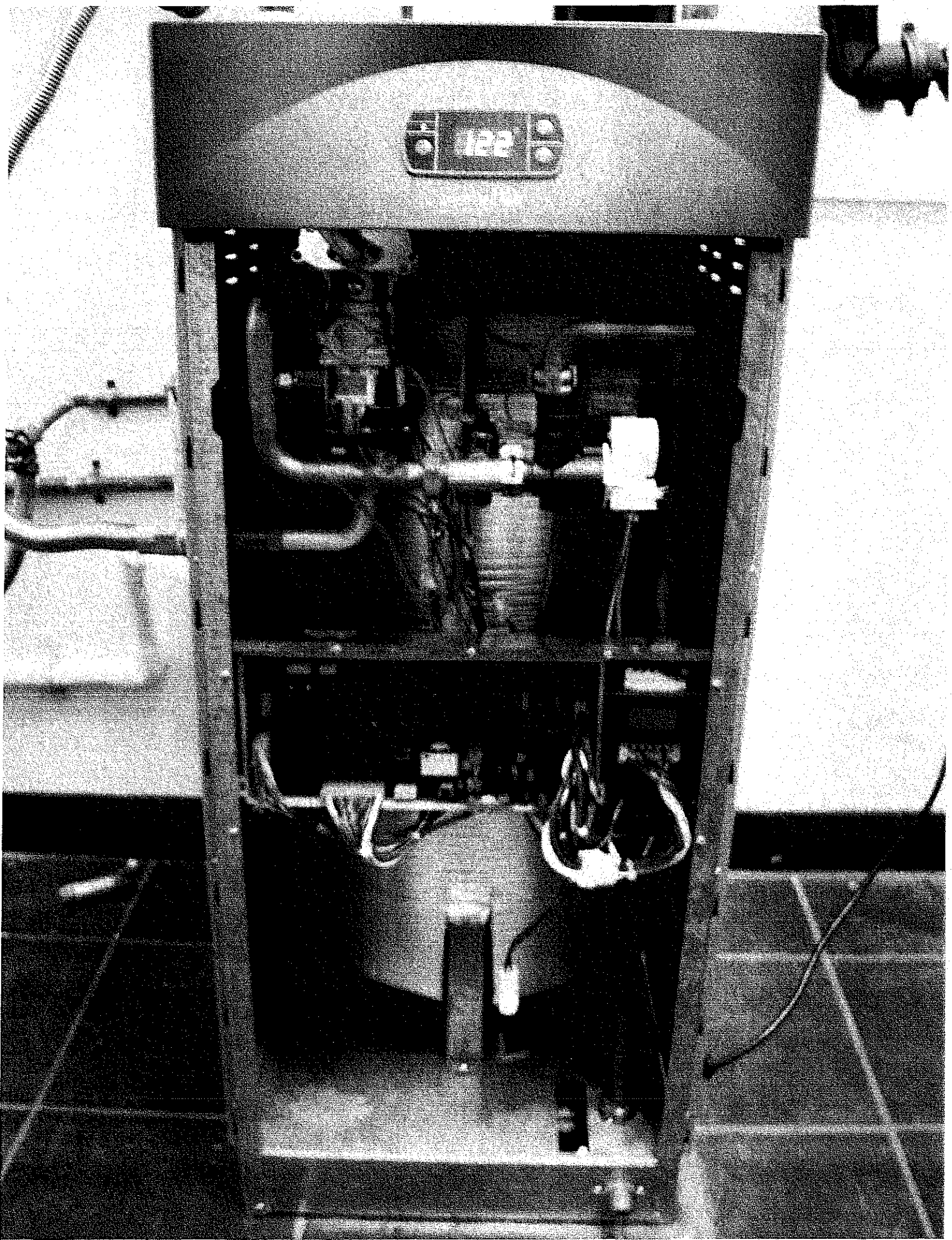
The advanced multi pass heat exchanger drives heat downward then recycles it through 44 baffled pipes for maximum efficiency

Water fills the reservoir from bottom up and spreads evenly around the 44 heating pipes, producing endless hot water with consistent pressure and temperature



Visit www.eternalwaterheater.com, call 1-877-934-7455, or e-mail eternalsales@grandhall.com

eternal 





eternal





JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 28, 2008

DOCUMENT #08-35

TO: Members of the Construction Code Commission
FROM: Robert G. Konyndyk, Chief, Plumbing Division *pk*
SUBJECT: Approval of NobleSeal TS

The applicant has requested product approval to provide product acceptance through approval clarification. The product conformance standard is not referenced in the Michigan Plumbing Code.

APPLICANT REPRESENTATIVE:

Mr. James A. Wadaga - Noble Company

APPLICANT:

Noble Company
POB 350
Grand Haven, Michigan 49417-0350

AUTHORITY:

Section 21 of Act 230, 1972 being section 125.1521 of the Michigan Compiled Laws.

PRODUCT:

NobleSeal TS composite sheet membrane for thin-bed waterproofing in shower receptors.

APPLICATION:

Shower pan liners

Providing for Michigan's Safety in the Built Environment

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P.O. BOX 30254 • LANSING, MICHIGAN 48909
Telephone (517) 241-9330 • Fax (517) 373-8547
www.michigan.gov

LABORATORY TESTS:

None provided. A listing from IAPMO was provided which covered 3 different products, identified as 4339, dated November 2007.

CODE REQUIRMENTS:

Michigan Plumbing Code, Section 417.5.2.2 Chlorinated polyethylene (CDE) sheets

This type of product with its different installation process and performance standard will be incorporated into the 2009 plumbing codes.

CONDITIONS OF USE AND INSTALLATION:

1. All requirements of the Michigan Plumbing codes shall be applicable.
2. Installations shall be in accordance with the manufacturers specifications.

RECOMMENDATION:

The product was recommended to the commission for approval by the State Plumbing Board at their March 18, 2008 board meeting.

RGK/mkr

Petition Application for Approval of Material, Product or Method
Michigan Department of Labor & Economic Growth
Bureau of Construction Codes
P.O. Box 30255, Lansing, MI 48909
www.michigan.gov/bcc

Agency Use Only

BCCP-08-095
\$500 11/19/07

Application Fee: \$500.00

Authority: 1972 PA 230
Completion: Mandatory
Penalty: Use of material, product or method will not be approved

The Department of Labor and Economic Growth will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency.

PRODUCT INFORMATION

NATURE OF APPLICATION

☐ Material ☒ Product ☐ Method of Manufacture or Construction ☐ Component

CODE UNDER WHICH APPROVAL IS SOUGHT

☐ Building (140) ☐ Electrical (115) ☐ Mechanical (130) ☒ Plumbing (98)

NAME OF MATERIAL, PRODUCT OR METHOD OF MANUFACTURE (Limit To One Item Per Application)

NOBLESEAL TS

OTHER IDENTIFICATION (Model Number)

DESCRIPTION (Use Additional Sheets If Necessary)

COMPOSITE SHEET MEMBRANE FOR THIN-BED WATERPROOFING IN SHOWER RECEPTORS

INTENDED USE (Use Additional Sheets If Necessary)

RESIDENTIAL WATERPROOFING

DATA SUBMITTED

☒ Letter ☐ Manual ☒ Standards ANSI A118.10 ☒ Installation Instructions ☒ Display Catalog SHEET
Reports
☐ ICC - NES ☐ BOCA - NES ☐ ICBO ☐ SBCC ☐ NRB ☒ Other IAPMO FILE #4339
☒ Product Sample or Model
☐ Prior Approvals by Other Agencies
☐ Recommendations by Model Code Bodies

LABORATORY TEST BY

SGS US TESTING COMPANY INC

PILOT SERVICE EXPERIENCE AND CONDITIONS (Use Additional Sheets If Necessary)

NOBLESEAL TS HAS BEEN INSTALLED IN WATERPROOFING APPLICATIONS FOR OVER 20 YEARS.
HAS IAPMO LISTING (FILE #4339).

RESTRICTIONS FOR USE (Use Additional Sheets If Necessary)

FOR INTERIOR APPLICATIONS

APPLICANT (Note: All correspondence will be sent to this address)

NAME OF COMPANY

NOBLE COMPANY

APPLICANT NAME

JAMES A WADAGA

ADDRESS

POB 350

ERIC DELL

CITY

GRAND HAVEN

STATE

MI

ZIP CODE

49417-0350

TELEPHONE NUMBER (Include Area Code)

231-799-8000

APPLICANT SIGNATURE (Must be an original signature)

J. Wadaga

DATE

11/13/07

FAX NUMBER (Include Area Code)

231-799-8850

NobleFlex® Drain Flashing Installation Instructions

1.0 Materials

NobleFlex Drain Flashing (3/4" or 1-1/2" deep)
NobleSealant 150
Positive Weep Protector™ (Note: Only for use with 1-1/2" NobleFlex Drain Flashings)
Waterproofing Membrane (i.e. NobleSeal® TS, Chloraloy®, etc.)

2.0 Preparatory Work

Determine the proper Drain Flashing depth (3/4" or 1-1/2") needed to adapt the waterproofing membrane ring drain. Verify that the strainer can be adjusted (high or low) to the finished flooring elevation.

3.0 Installing Drain Flashing to Clamping Ring Drain

Remove strainer and clamping ring.

Insure that Drain Flashing is supported on underside by properly tapered mortar bed. Add or remove mortar as needed.

Trace drain hole opening and bolt holes onto flashing. Carefully cut out inside drain opening and openings for clamping ring bolts.

Apply a bead of NobleSealant 150 on the lower drain body.

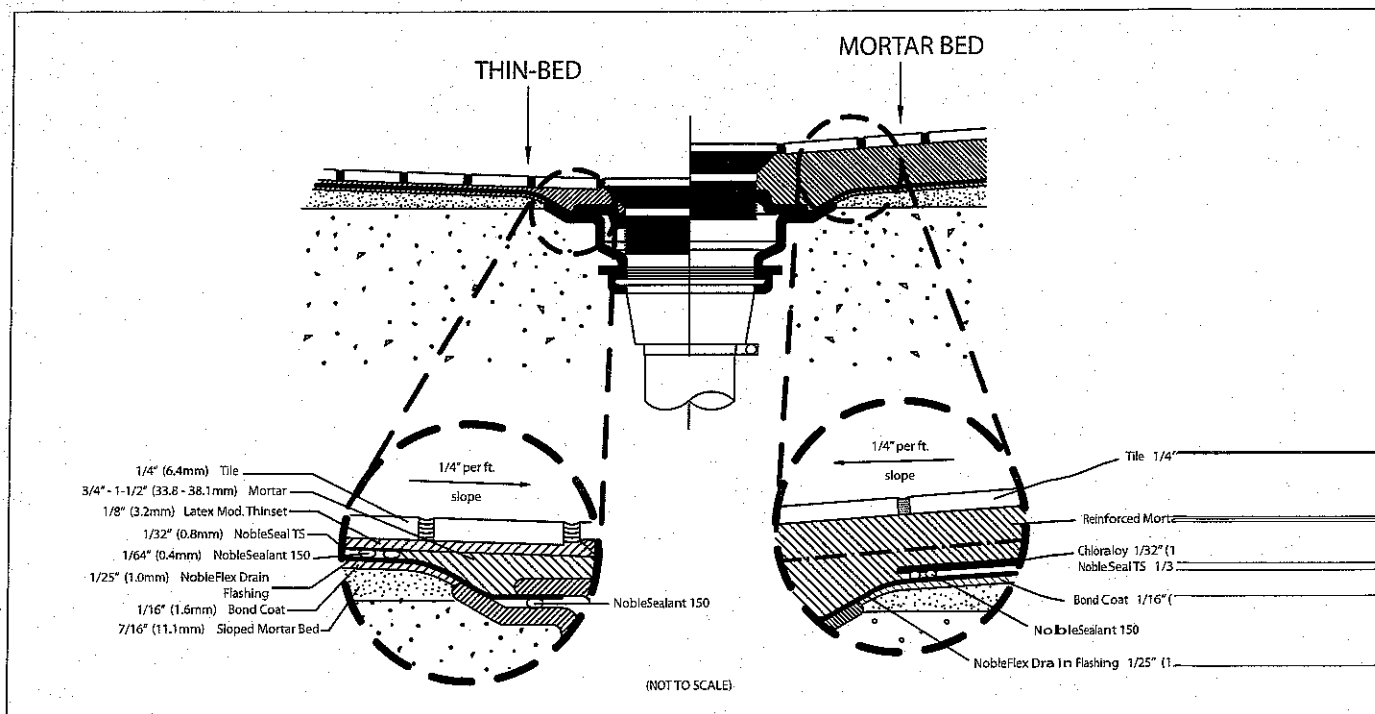
Bond Drain Flashing to substrate with latex modified thin-set or NobleBond EXT. Embed Flashing into bond coat.

Install the Drain Flashing by pressing the clamping ring bolts through openings in the Flashing.

Reset clamping ring and firmly tighten bolts. Follow manufacturer's instructions.

Protect weep holes from clogging.

Replace strainer and adjust to proper height for tile.



4.0 Installation of Waterproof Membrane

Install waterproof membrane according to manufacturer's instructions.

5.0 Seaming Waterproof Membrane to Drain Flashing

Drain Flashing and waterproof membrane surfaces must be clean and dry.

NOTE: Fabric does not need to be removed. Do not solvent weld materials together.

Waterproof membrane should overlap the Drain Flashing a minimum of 2". Seam with two parallel beads

A. Apply 1 (one) bead 1/4" in from the edge of the Drain Flashing.

B. Apply second bead parallel to and 1/2" in from the first bead.

6.0 Flood Test

Test for leaks per local code requirements.

7.0 Completing the Slope

Fill depression in Drain Flashing with mortar to required plane. Follow appropriate industry standards.

NobleFlex® Drain Flashing Installation Instructions

1.0 Materials

NobleFlex Drain Flashing (3/4" or 1-1/2" deep)
NobleSealant 150
Positive Weep Protector™ (Note: Only for use with 1-1/2" NobleFlex Drain Flashings)
Waterproofing Membrane (i.e. NobleSeal® TS, Chloraloy®, etc.)

2.0 Preparatory Work

Determine the proper Drain Flashing depth (3/4" or 1-1/2") needed to adapt the waterproofing membrane down to the clamping ring drain. Verify that the strainer can be adjusted (high or low) to the finished flooring elevation.

3.0 Installing Drain Flashing to Clamping Ring Drain

Remove strainer and clamping ring.

Insure that Drain Flashing is supported on underside by properly tapered mortar bed. Add or remove mortar as necessary.

Trace drain hole opening and bolt holes onto flashing. Carefully cut out inside drain opening and openings for clamping ring bolts.

Apply a bead of NobleSealant 150 on the lower drain body.

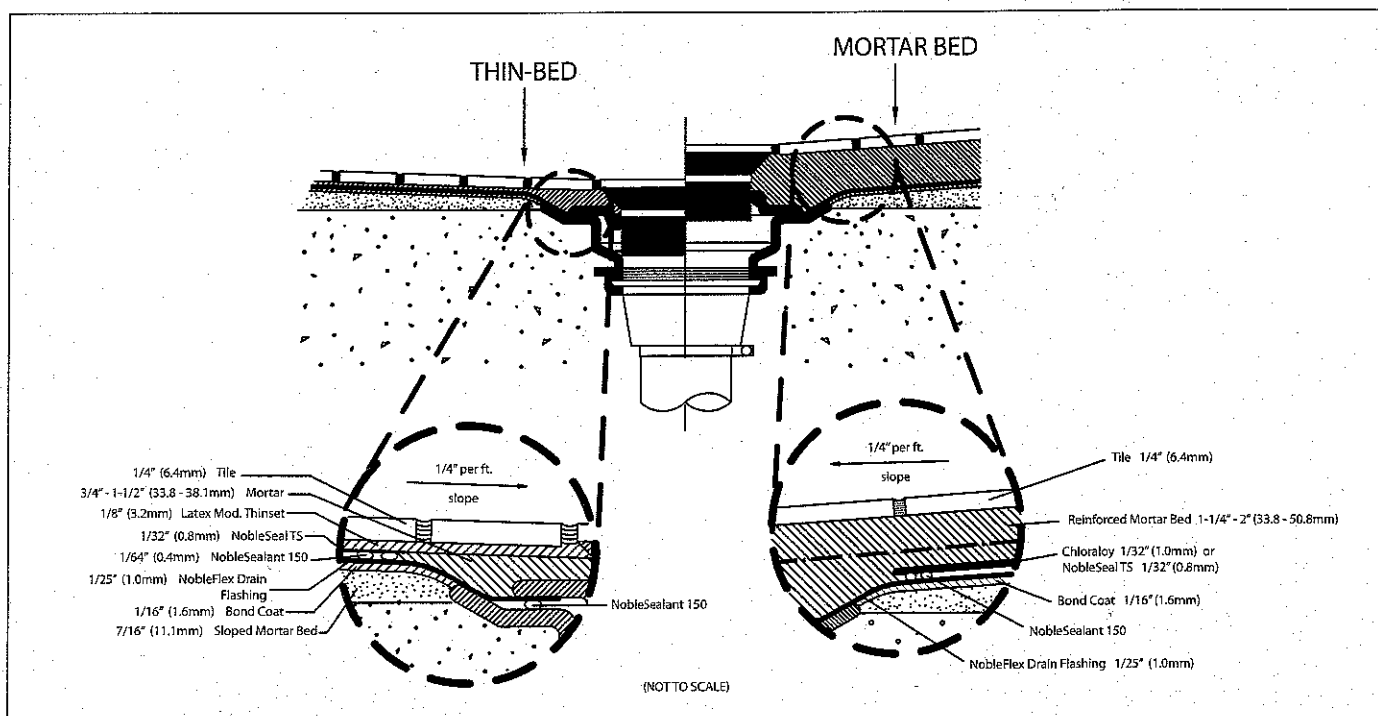
Bond Drain Flashing to substrate with latex modified thin-set or NobleBond EXT. Embed Flashing into bond coat.

Install the Drain Flashing by pressing the clamping ring bolts through openings in the Flashing.

Reset clamping ring and firmly tighten bolts. Follow manufacturer's instructions.

Protect weep holes from clogging.

Replace strainer and adjust to proper height for tile.



4.0 Installation of Waterproof Membrane

Install waterproof membrane according to manufacturer's instructions.

5.0 Seaming Waterproof Membrane to Drain Flashing

Drain Flashing and waterproof membrane surfaces must be clean and dry.

NOTE: Fabric does not need to be removed. Do not solvent weld materials together.

Waterproof membrane should overlap the Drain Flashing a minimum of 2". Seam with two parallel beads of NobleSealant 150.

- Apply 1 (one) bead 1/4" in from the edge of the Drain Flashing.
- Apply second bead parallel to and 1/2" in from the first bead.

6.0 Flood Test

Test for leaks per local code requirements.

7.0 Completing the Slope

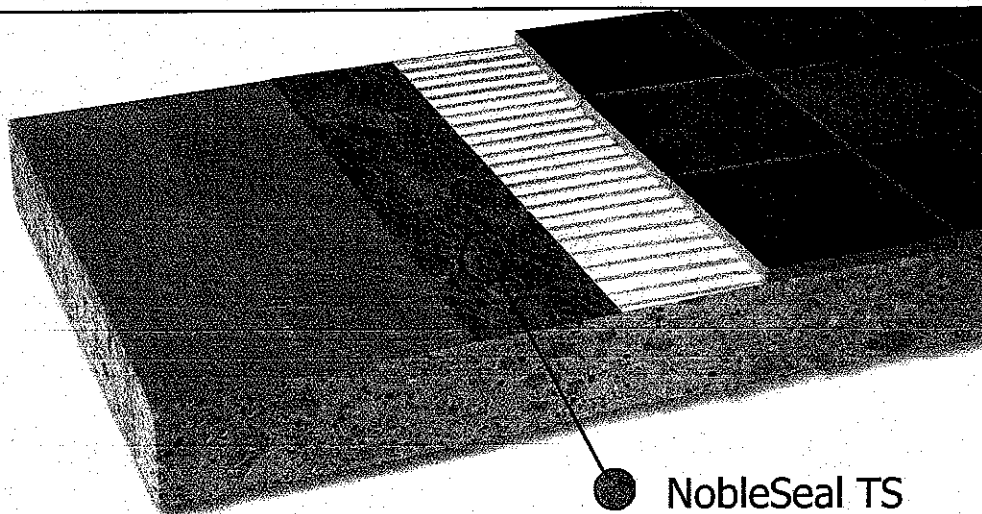
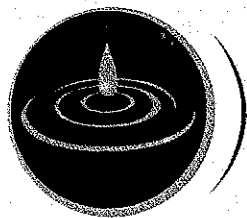
Fill depression in Drain Flashing with mortar to required plane. Follow appropriate industry standards.

PATENT PENDING

NobleSeal® TS

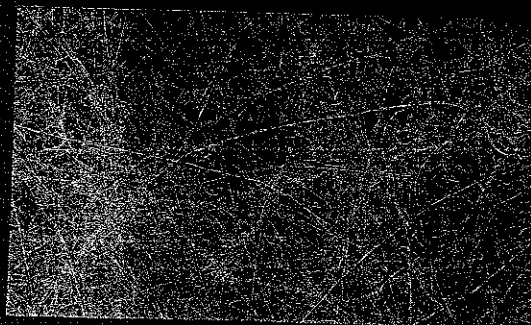
Thin-Bed Waterproofing

A single sheet membrane that provides thin-bed waterproofing and crack isolation/joint bridging.



NobleSeal TS

NobleSeal® TS
thin-set waterproofing



- Best Moisture/Vapor Barrier
- Single Sheet Membrane
- Made from CPE
- Will not rot, crack or deteriorate
- Meets ANSI A118.10
- IAPMO (#4339)
- Protects tile from cracking
- ANSI A118.12, High Performance
- Rated Extra Heavy

See Over ▶

er waterproofing

O File #4339

er - 0.050 perms

cracking

son Test (ASTM C 627)

criteria for ANSI A118.12 (jig test)

ethylene - Guaranteed not to rot,

and quality - Minimizes workmanship

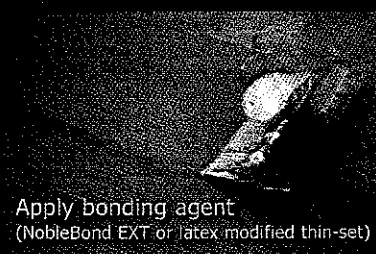
diately

rates (vertical and horizontal)

floors, radiant heat and

ents

Installation:*



Apply bonding agent
(NobleBond EXT or latex modified thin-set)



Embed TS with a roller



Install tile
by a thin-bed method

* Caution: Read complete installation instructions prior to installing.

Noble Company

www.noblecompany.com

P.O. Box 350 • Grand Haven, MI 49417-0350
Toll Free: 800-878-5788 • Fax: 231-799-8850

MADE IN THE U.S.A.

Form #TS PD 04/07
Supersedes 07/06



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 28, 2008

DOCUMENT #08-36

TO: Members of the Construction Code Commission

FROM: Robert G. Konyndyk, Chief, Plumbing Division *RMK*

SUBJECT: Bradley Model LC840 LavCare Module

The product manufacturer has made minor changes to the product previously approved as 1461-PA, June 17, 1999.

APPLICANT REPRESENTATIVE:

Mr. Thomas R. Eberhardy

APPLICANT:

Bradley Corporation
W142 N9101 Fountain Boulevard
Menomonee Falls, WI 53051

AUTHORITY:

Section 21 of Act 230, 1972 being section 125.1521 of the Michigan Compiled Laws.

PRODUCT:

Bradley Model LC840 LavCare Module

APPLICATION:

Combination lavatory and concealed water closet module positioned at a patient's bedside as a hygienic replacement for bedpans and commodes.

Providing for Michigan's Safety in the Built Environment

BUREAU OF CONSTRUCTION CODES
P.O. BOX 30254 • LANSING, MICHIGAN 48909
Telephone (517) 241-9330 • Fax (517) 373-8547
www.michigan.gov

LABORATORY TESTS:

For Water Closet Bowl
Fluid Power Institute Applied Technology Center
Milwaukee School of Engineering

APPLICABLE CODE SECTION:

P-1505.11 Protection of potable water outlets.

CONDITIONS OF USE AND INSTALLATION:

1. The unit shall not contain dialysis box connections.
2. All requirements of the Michigan Plumbing codes shall be applicable.
3. To be installed in hospitals or care institutions only.
4. The request from the hospital or care institutions must be approved by the Health Department having jurisdiction, and meet their conditions prior to review by the State Plumbing Board.
5. Such installations would be in addition to any required hand washing or toilet facilities, and could not be substituted for required facilities.
6. An acceptable means of providing privacy, such as a screen or curtain, must be provided in conjunction with the installation of this equipment.
7. A properly installed acceptable vacuum breaker shall be located downstream from the flushometer valve at the required height location.
8. A properly installed acceptable vacuum breaker shall be provided for the bedpan washer connection at the required height location.

RECOMMENDATION:

The State Plumbing Board at their March 18, 2008, board meeting recommended the product to the commission for approval.

RGK/mkr

Petition Application for Approval of Material, Product or Method
Michigan Department of Labor & Economic Growth
Bureau of Construction Codes
P.O. Box 30255, Lansing, MI 48909
www.michigan.gov/bcc

Trans Info# 98 13605273-1 01/29/08
Chk# 443696 Amt: \$500.00
ID: BRADLEY Agency Use Only

BCCP-08-007
01/29/08 \$500

Application Fee: \$500.00

Authority: 1972 PA 230
Completion: Mandatory
Penalty: Use of material, product or method will not be approved

The Department of Labor and Economic Growth will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, disability, or political beliefs. If you need help with reading, writing, hearing, etc., under the Americans with Disabilities Act, you may make your needs known to this agency.

PRODUCT INFORMATION

NATURE OF APPLICATION

☐ Material ☒ Product ☐ Method of Manufacture or Construction ☐ Component

CODE UNDER WHICH APPROVAL IS SOUGHT

☐ Building (140) ☐ Electrical (115) ☐ Mechanical (130) ☒ Plumbing (98)

NAME OF MATERIAL, PRODUCT OR METHOD OF MANUFACTURE (Limit To One Item Per Application)

Patient Care Module

OTHER IDENTIFICATION (Model Number)

Bradley LC840 (similar to model LC800 listed on Product Approval #1461-PA) 05-05-99

DESCRIPTION (Use Additional Sheets If Necessary)

Lavatory/Water Closet Combination

INTENDED USE (Use Additional Sheets If Necessary)

Provide a bedside toilet and lavatory that is more hygienic, physiologically and psychologically superior replacement to bedpans or commodes. Provides an efficient patient care station that is more convenient for hospital staff.

DATA SUBMITTED

☐ Letter ☐ Manual ☐ Standards ☒ Installation Instructions ☒ Display Catalog

Reports
☐ ICC - NES
☐ BOCA - NES
☐ ICBO
☐ SBCC
☐ NRB
☐ Other IAPMO cUPC

☐ Product Sample or Model
☐ Prior Approvals by Other Agencies
☐ Recommendations by Model Code Bodies

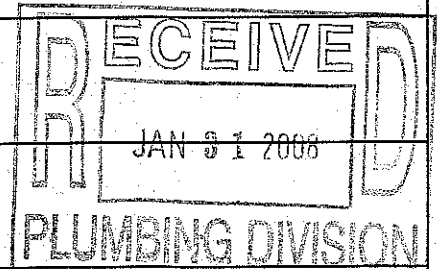
LABORATORY TEST BY

PILOT SERVICE EXPERIENCE AND CONDITIONS (Use Additional Sheets If Necessary)

None

RESTRICTIONS FOR USE (Use Additional Sheets If Necessary)

None



APPLICANT (Note: All correspondence will be sent to this address)

NAME OF COMPANY

Bradley Corporation

APPLICANT NAME

Thomas R. Eberhardy

ADDRESS

W142 N9101 Fountain Boulevard

CITY

Menomonee Falls

STATE

Wisconsin

ZIP CODE

53051

TELEPHONE NUMBER (Include Area Code)

(262) 532-5975

APPLICANT SIGNATURE (Must be an original signature)

Thomas R. Eberhardy

DATE

21 January 2008

FAX NUMBER (Include Area Code)

(262) 251-5817

LC840

Patient Care Unit, 40", Fixed Water Closet

- Combination Lavatory Closet Module
- Epoxy Coated Stainless Steel Toilet
- Meets Low Flow Flushing Requirements
- Built-In Bedpan Washer

Specifications

Standard Equipment

Cabinet

Frame is stainless steel; cabinet exterior is 3/4" MDF with laminate finish in Formica #925 Champagne. Interior finishes are laminate and satin finish stainless steel. Toilet tissue holder is conveniently located inside the cabinet door.

Countertop

Standard finish for MDF laminate countertop is Wilsonart #4633 Natural Nebula. Other countertop selections include Terreon® solid surface countertop.

Terreon®, a densified solid surface material composed of polyester resin. Terreon® is resistant to chemicals, stains, burns, and impact. Surface damage can be easily repaired with everyday cleansers or fine grit abrasives. Terreon® is NAHB certified to meet ANSI Z124.3, Z124.6 and ANSI/ICPA SS-1-2001.



Lavatory

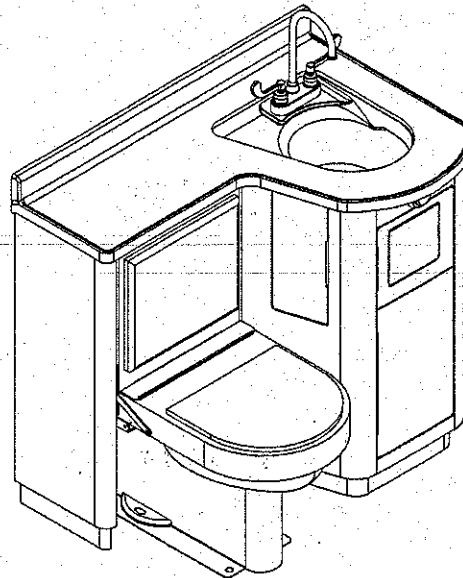
Lavatory is 14 gauge stainless steel with factory caulking. Measures 14-1/2" x 9-1/2" x 6-1/2" deep. Stops complying with local codes to be furnished by plumbing contractor.

Toilet

Available in left or right-side toilet configurations. Toilet is available in floor or wall mounted toilets with a top spud inlet supply. Toilet is stainless steel with bedpan lugs. Stainless steel toilet is constructed entirely of heavy gauge stainless steel and will support a 5,000 lb. static load. Siphon jet type with elongated bowl, integral flushing rim, and remote-actuated hydraulic flushing system with push button. 25PSI minimum is required for flushing. White seat has self-sustaining hinge. A 1.6 gallon per flush (low flow) toilet is standard. Toilet assembly meets ANSI/ASME A112.19.2.

Check Your Surroundings

Certain factors, such as intense direct sunlight, other infrared devices, or other site conditions may interfere with the activation of infrared faucets. Contact your local Bradley representative to discuss any application concerns.



NOTE: LC840 shown with optional selections

All Patient Care Units are non-cancelable and non-returnable because they are made to exact specifications for each order.

Sample Specification

Module patient care unit in decorator cabinet shall be Bradley Model LC840. Unit shall be free standing with type 304 stainless steel frame, a 3/4" MDF laminate cabinet exterior/countertop, and the following standard equipment:

- cabinet finish in Formica #925 Champagne laminate
- toilet tissue holder
- countertop finish in Wilsonart #4633 Natural Nebula
- lavatory and factory-installed caulking
- 10" gooseneck spout with 4" wristblade handles
- siphon jet heavy gauge stainless steel toilet is fixed and has elongated bowl, integral flushing rim, and white hinged seat cover and shall be a minimum of 17"H and support a 5,000 lb. static load.

Document No. 6045

This information is subject to change without formal notice.
© 2007 Bradley Corporation
1-31-2007 (7 Pages Total)

Bradley 

P.O. Box 309, Menomonee Falls, WI 53052-0309
Phone 1-800-BRADLEY FAX 262-251-5817
Web Site: <http://www.bradleycorp.com>



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

April 14, 2008

Document #08-39

TO: Members of the Construction Code Commission

FROM: Tennison B. Barry, Chief, Mechanical Division

TBB

SUBJECT: Approval of Air Dispersion Systems

APPLICANT:

Fabric Air Inc.
1400 Envoy Circle, Suite 1616
Louisville, KY 40299

AUTHORITY:

Section 21 of 1972 PA 230, MCL 125.1521.

PRODUCT:

Air Dispersion Systems.

APPLICATION:

Diffuser Systems designed to both convey air within a room, space or area and diffuse air into that space while operating under positive pressure.

LABORATORY TESTS:

UL

CONDITIONS OF USE AND INSTALLATION:

1. Must be installed to the Michigan Mechanical Code.
2. Must be installed to the Manufacturers installation instructions.
3. Must be installed in compliance with AC 167.
4. Must be located in the space that is be conditioned by the system.
5. Must not pass through fire resistance-rated assemblies.

Providing for Michigan's Safety in the Built Environment

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Telephone (517) 241-9325 • Fax (517) 241-9308
www.michigan.gov/bcc

Construction Code Commission
Page 2
April 14, 2008

RECOMMENDATION:

The Board of Mechanical Rules recommends the product to the Commission for approval at their May 7, 2008 meeting.

TBB/cct



333 Pingsten Road
Northbrook, Illinois 60062-2096
(847) 272-8800
FAX No. (847) 272-8129
MCI Mail No. 254-3343
Telex No. 6502543343



File R18704
Project 97NK36618

February 12, 1998

REPORT

on

DISTRIBUTION DEVICE, AIR

Under The

CLASSIFICATION PROGRAM

IPS: Ventilation
Koge, Denmark

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company to reproduce this Report provided it is reproduced
in its entirety.

RSK/RKL:per
NKDLS

A not-for-profit organization
dedicated to public safety and
committed to quality service

File R18704

Page C1

Issued: 2-12-98

C O N C L U S I O N

The following conclusions represent the judgement of Underwriters Laboratories Inc. based upon the results of the examination and tests presented in this Report.

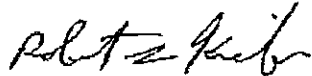
NFPA 90A-1993, "Installation of Air Conditioning and Ventilation Systems" requires air outlets to be constructed of noncombustible material or material that has Flame Spread and Smoke Developed ratings less than or equal to 25 and 50, respectively.

The products covered by this Report are judged to be eligible for Classification and Follow-Up Service based upon the test results obtained. The manufacturer is authorized to use the Laboratories' Classification Marking as shown below on such products which comply with the Follow-Up Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the Laboratories' Classification Marking are considered as Classified by Underwriters Laboratories Inc.

CLASSIFICATION MARKING:

UNDERWRITERS LABORATORIES INC. ®
CLASSIFIED
DISTRIBUTION DEVICE, AIR
IN ACCORDANCE WITH FLAMMABILITY REQUIREMENTS
OF NFPA 90A-1993

Report by:



ROBERT S. KIEFER
Engineering Associate

Reviewed by:



R. K. LAYMON
Engineering Group Leader

RSK/RKL:per
NKDLS

File R18704

Page T1-1 of 11

Issued: 2-12-98

TEST RECORD NO. 1EXAMINATION OF MATERIALS:

The materials used in this investigation were produced under the observation of a representative of Underwriters Laboratories Inc., in a ready-to-use form. The composition of the finished materials is of a proprietary nature. Data on the composition is on file at the Laboratories for use in the Follow-Up Service Program.

Various physical and chemical tests were conducted on the components and finished products. The results developed from these tests were employed in establishing specifications for use in the factory Follow-Up Service Program.

SURFACE BURNING CHARACTERISTICS:SAMPLES

The samples consisted of Textile Channels manufactured with Polyester/Trevira CS fabric, Perfo Channels manufactured with coated polyester/Trevira fabric and Textile Channels with slot diffusers manufactured with Polyester/Trevira CS fabric.

Each test sample consisted of a length 24 ft long by 24 in. wide of the finished product.

Each test sample was supported by 2 in. hexagonal poultry netting supported by 1/4 in. diameter steel rods spaced 2 ft apart.

For each test a piece of 1 ft long by 22 in. wide by 1/16 in. thick uncoated steel plate was placed at the fire end of the tunnel furnace "upstream" from the gas burners to complete the 25 ft chamber length.

METHOD

The tests were conducted in accordance with the Standard of Underwriters Laboratories Inc. for Test for Surface Burning Characteristics of Building Materials, UL 723.

RSK/RKL:per
NKDLS

File R18704

Page T1-2 of 11

Issued: 2-12-98

Revised: 3-20-98

RESULTS

Data on flame spread and smoke developed appears in the following tabulations. Graphs of flame spread versus time and smoke developed versus time are also provided as part of the Test Record.

Flame Spread Index

The maximum distance the flame spreads along the length of the sample from the end of the igniting flame is determined by observation.

The Flame Spread Index of the material is derived by determining the area under the flame spread distance (ft) versus time (min) curve, ignoring any flame front recession, and using one of the calculation methods as described below.

1. If the total area (A_T) is less than or equal to 97.5 min-ft, the Flame Spread Index shall be 0.515 times the total area ($FSI = 0.515 A_T$).

2. If the total area (A_T) is greater than 97.5 min-ft, the Flame Spread Index is to be 4900 divided by 195 minus the total area ($FSI = 4900/(195-A_T)$).

Test No.	Test Sample	Maximum Flame Spread (ft)	Time of Maximum Flame Spread (min:s)	Calculated Value for Flame Spread Index
1.	Textile Channels	1.0	0:45	4.9
2.	Textile Channels	1.0	0:52	4.9
3.	Textile Channels	1.5	2:10	6.6
4.	Coated Perfo Channels	1.5	0:35	7.5
5.	Coated Perfo Channels	1.5	0:49	7.4
6.	Textile Channels with Slot Diffuser	0.5	0:38	2.5
7.	Textile Channels with Slot Diffuser	0.5	0:44	2.5
8.	Textile Channels with Slot Diffuser	0.5	1:04	2.4

RSK/RKL:ryj
NKDLS

File R18704

Page T1-3 of 11

Issued: 2-12-98

Revised: 3-20-98

Smoke Developed Index

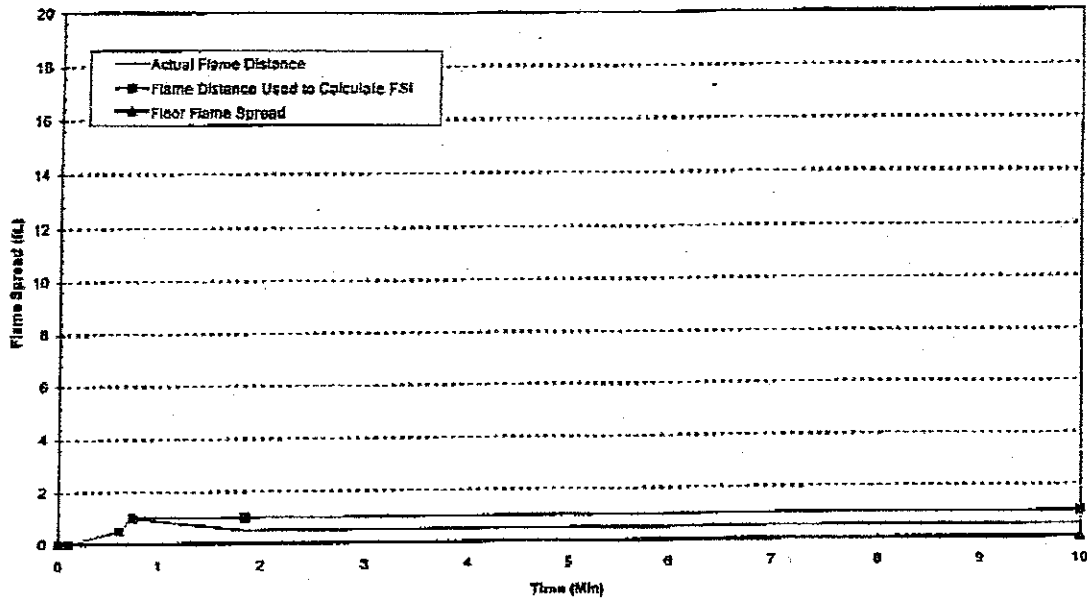
The smoke developed during the test is indicated by the output of a photoelectric circuit operating across the furnace flue pipe. A curve is developed by plotting values of light absorption (decrease in cell output) against time. The calculated value for Smoke Developed Index is derived by expressing the net area under the curve for this material as a percentage of the net area under the curve for untreated red oak.

<u>Test No.</u>	<u>* Test Sample</u>	<u>Calculated Value for Smoke Developed Index</u>
1.	Textile Channels	21.8
2.	Textile Channels	27.4
3.	Textile Channels	38.3
4.	Coated Perfo Channels	32.7
5.	Coated Perfo Channels	35.4
6.	Textile Channels with Slot Diffuser	35.4
7.	Textile Channels with Slot Diffuser	26.6
8.	Textile Channels with Slot Diffuser	31.1

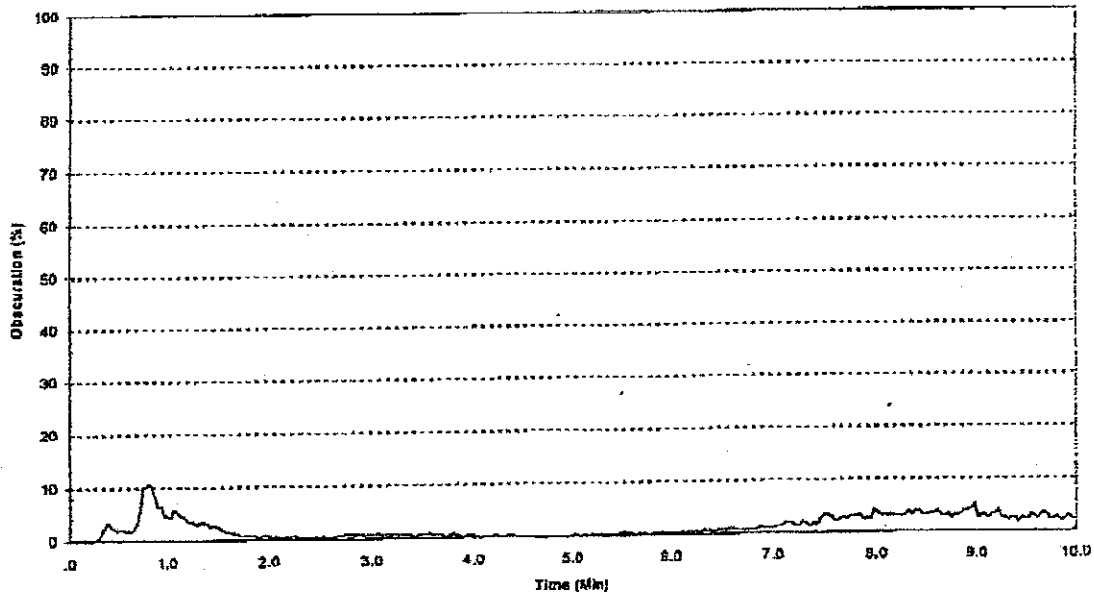
RSK/RKL:ryj
NKDLS

Steiner Tunnel Results TEXTILE CHANNELS (WHITE)

Flame Spread Results



Smoke Results

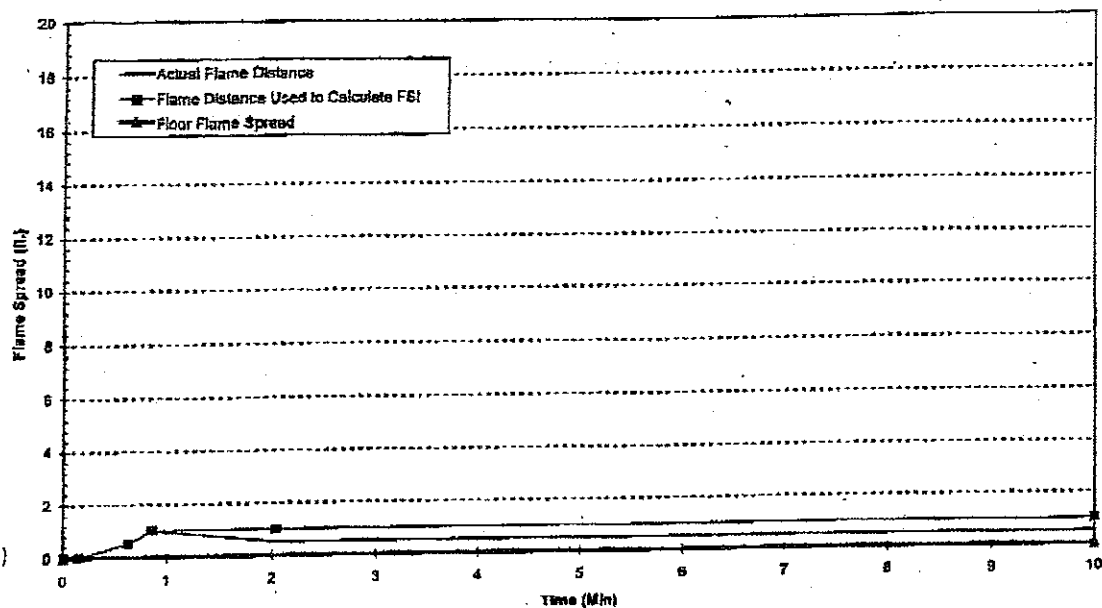


IPS: VENTILATION
Test Code: 12319707.XLS
Test No. 1
Project R18704/97NK36618

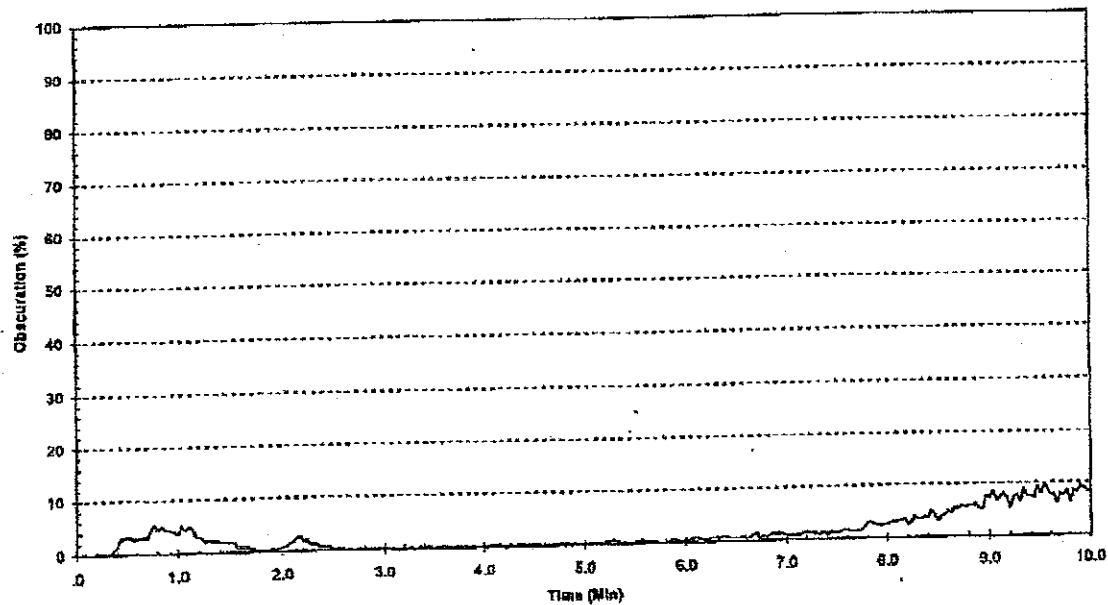
Flame Spread Index = 4.9
Smoke Developed Index = 21.8
Max Flame Spread = 1 ft.

Steiner Tunnel Results TEXTILE CHANNELS (WHITE)

Flame Spread Results



Smoke Results

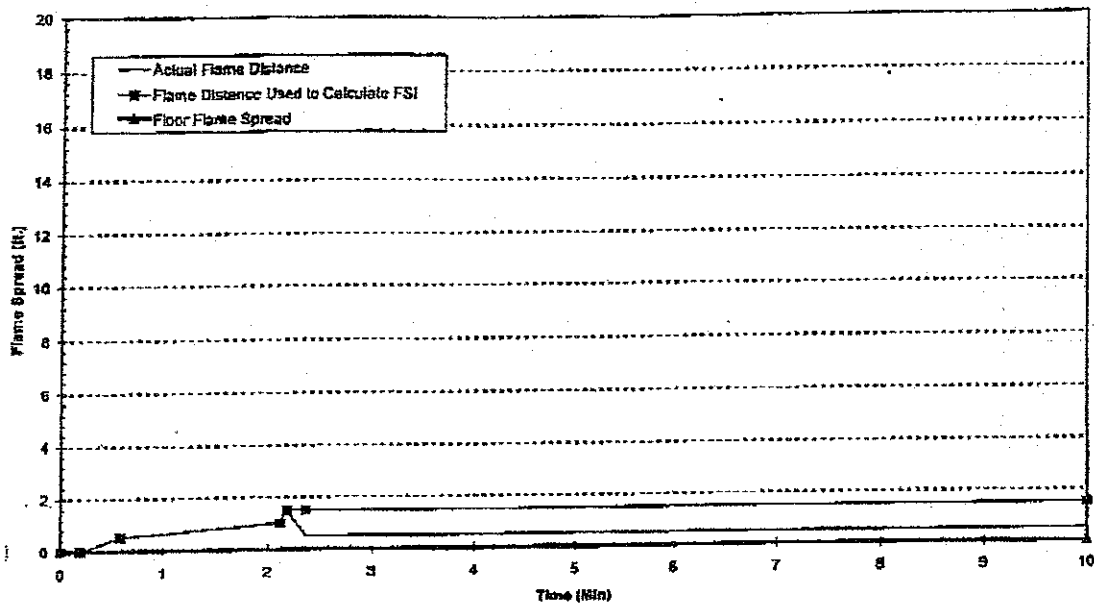


IPS - VENTILATION
Test Code: 12319708.XLS
Test No. 2
Project R16704/27NK38618

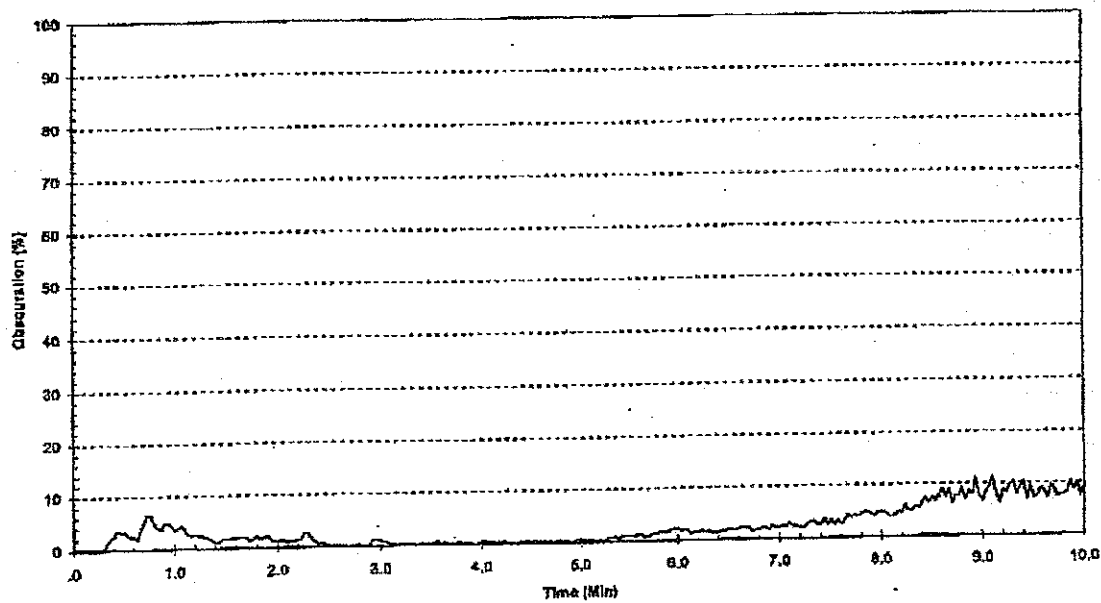
Flame Spread Index = 4.9
Smoke Developed Index = 27.4
Max Flame Spread = 1 ft.

Steiner Tunnel Results TEXTILE CHANNELS (WHITE)

Flame Spread Results



Smoke Results

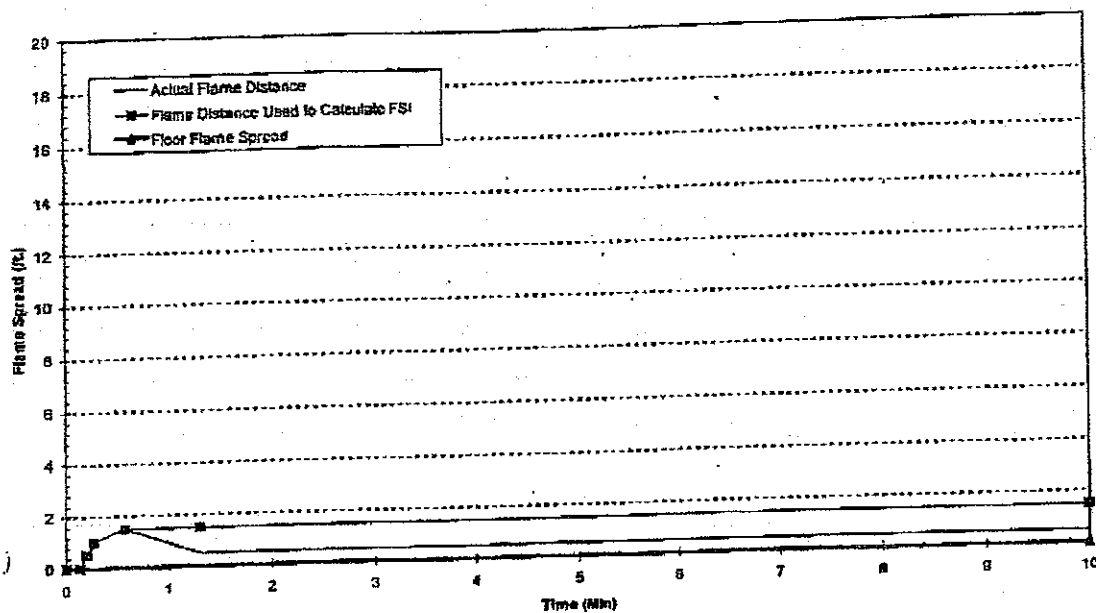


IPS: VENTILATION
Test Code: 12319714.XLS
Test No. 8
Project R1070427NK38619

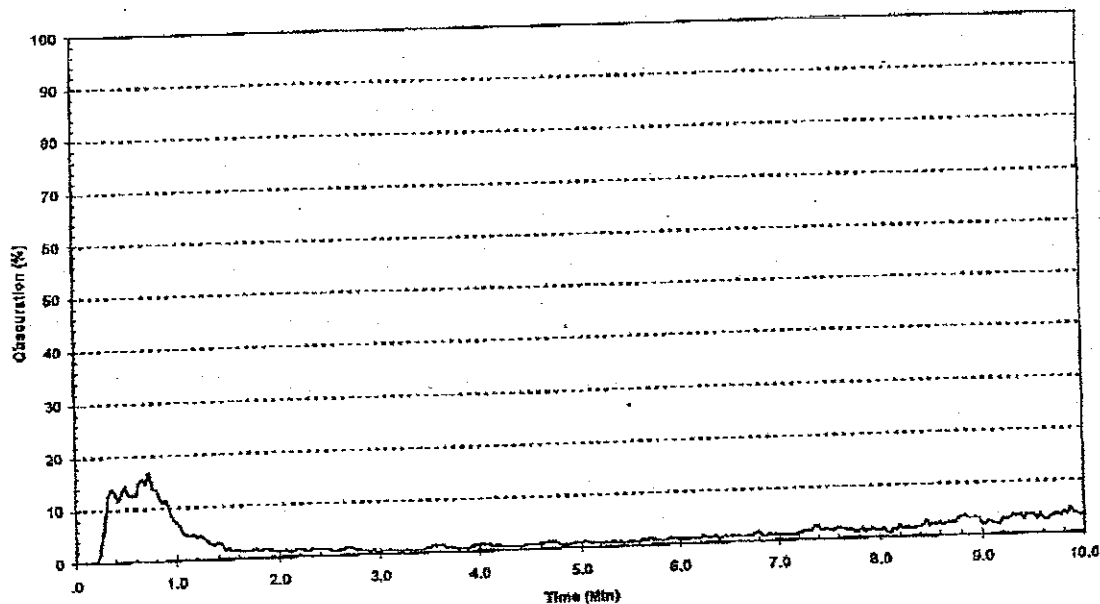
Flame Spread Index = 5.5
Smoke Developed Index = 39.3
Max Flame Spread = 1.5 ft

Steiner Tunnel Results COATED PERFO. CHANNELS (WHITE)

Flame Spread Results



Smoke Results

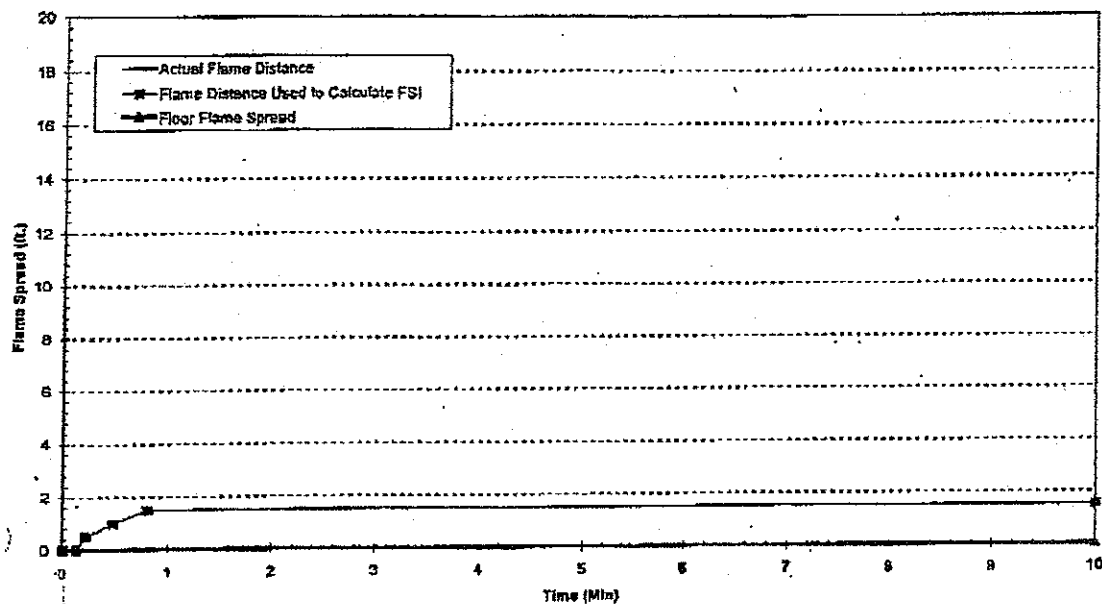


IPS : VENTILATION
Test Code: 12318712.XLS
Test No. 6
Project R18704/17NK36618

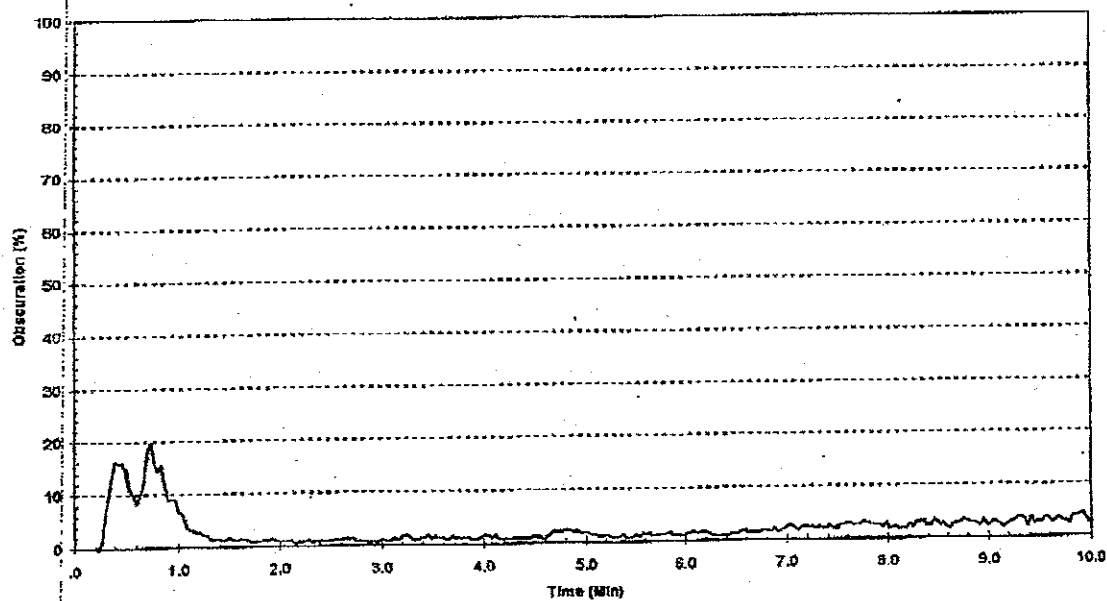
Flame Spread Index = 7.5
Smoke Developed Index = 32.7
Max Flame Spread = 1.5 ft

Steiner Tunnel Results COATED PERFO CHANNELS (WHITE)

Flame Spread Results



Smoke Results

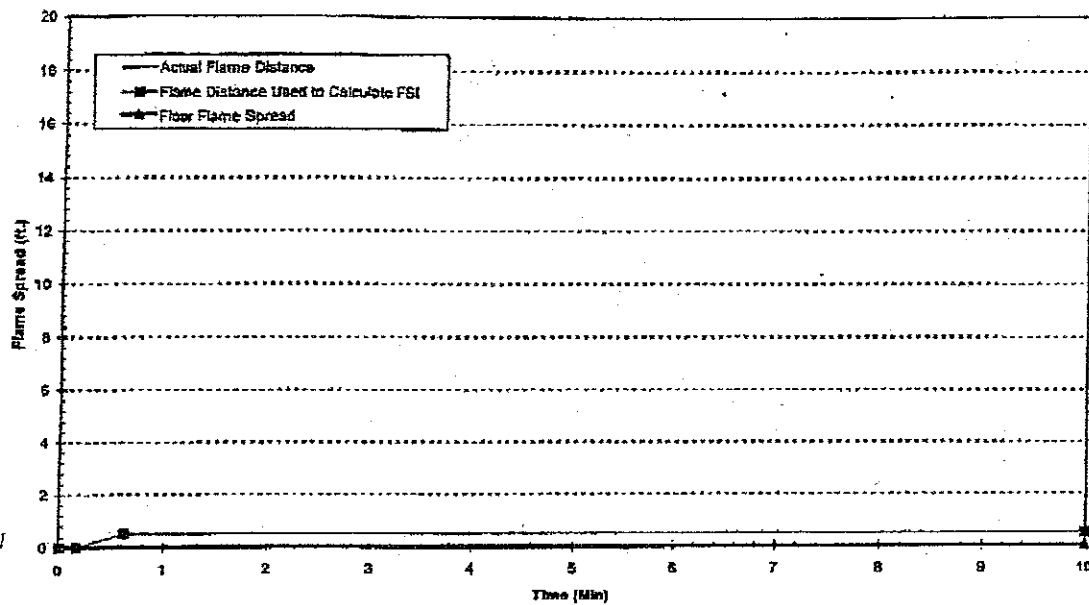


IPS VENTILATION
Test Code: D1158010.XLS
Test No. 1
Project R18704/97/NK36018

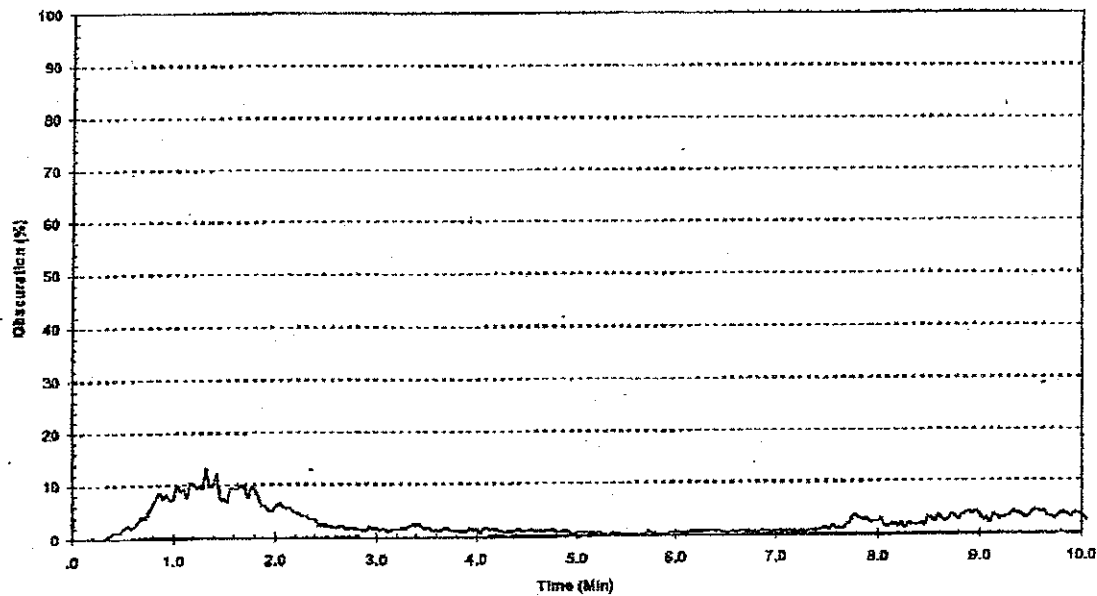
Flame Spread Index = 7.4
Smoke Developed Index = 35.4
Max Flame Spread = 1.5 ft.

Steiner Tunnel Results TEXTILE CHANNELS W/ SLOT DEFFUSER

Flame Spread Results



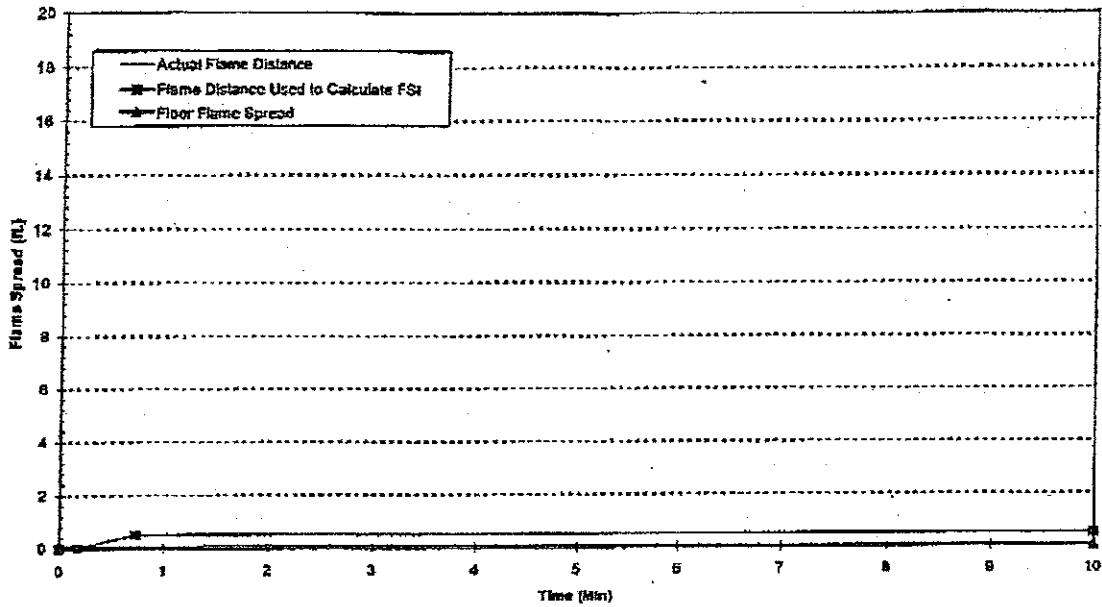
Smoke Results



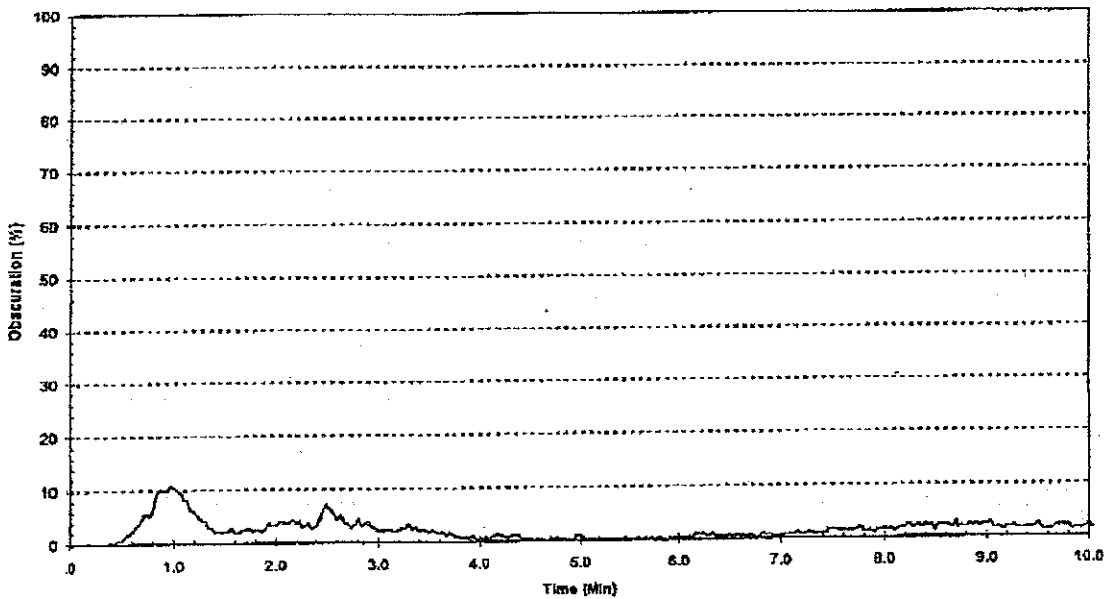
IPS VENTILATION
Test Code: 02059822.XLS
Test No. 1
Project R18704/STNK96618

Flame Spread Index = 2.5
Smoke Developed Index = 35.4
Max Flame Spread = 0.5 ft.

Flame Spread Results



Smoke Results

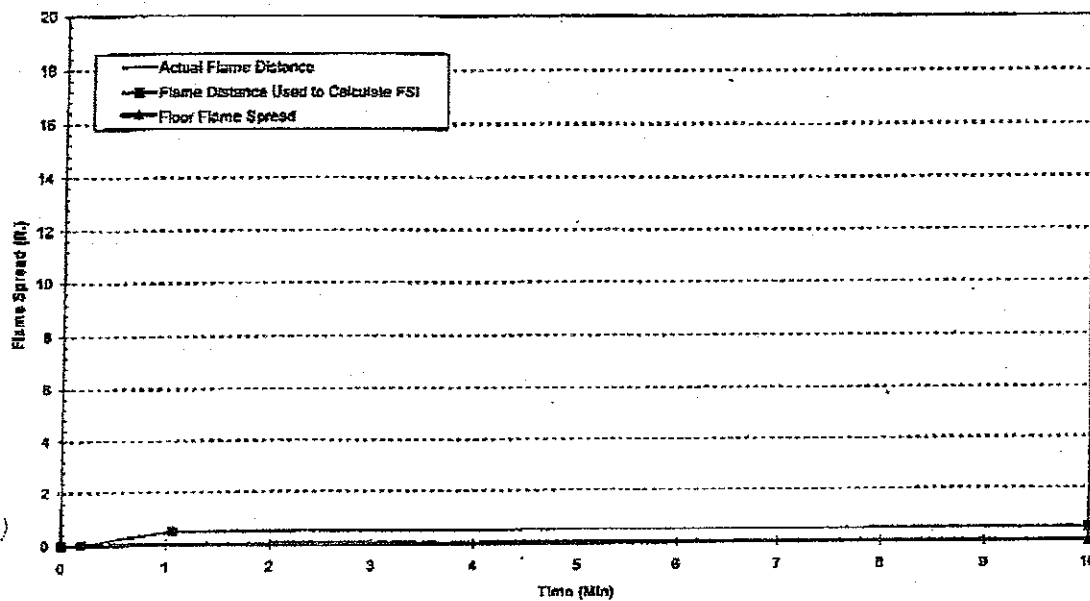


IPS/VENTILATION
 Test Code: 02056823.XLS
 Test No. 2
 Project R18704/97NK36918

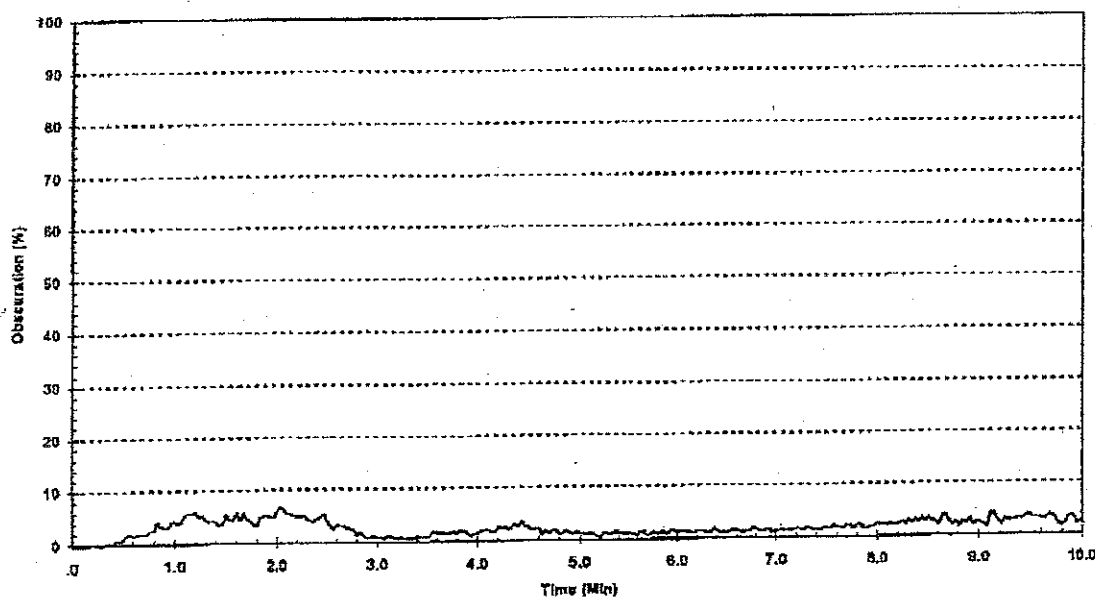
Flame Spread Index = 2.5
 Smoke Developed Index = 25.6
 Max Flame Spread = 0.5 ft.

Steiner Tunnel Results TEXTILE CHANNELS W/ SLOT DEFFUSER

Flame Spread Results



Smoke Results



Company

Fabric Specifications

Installation / Suspension

TIER 1: Manufacturers

bioclimatic GmbH (Bad Nenndorf, Germany) - www.bioclimatic.de

Supplier	Product	Fabric	Porous / Non Porous	Clean / Launder	Bldg. Code Compliance	Std. Colors + / Custom	Linear Yards	Plastic Nozzles	Custom Eng. Offices	Office Patterns	Suspended AL Track	Support Cable	Rod	Push AL Track	D-Shape Mount	Cable
Self-Air	Perforated	FR Polyester	Porous	X	?	5 + 7					X	X	X	X	X	X
Perforated	FR Polyester	Porous	X		?	5 + 7					X	X	X	X	X	X

DuctSox (Milwaukee, WI / Dubuque, IA) - www.ductsox.com

Section	FR Polyester	Porous	UL Classified, ICBO, NES	6 + custom	X	X	X	X	X	X	X	X	X	X	X	X
Micro-X	Antimicrobial Polyester	Porous	UL Classified, ICBO, NES	White	X	X	X	X	X	X	X	X	X	X	X	X
Slab-X	Anti-Static Polyester	Porous	UL Classified, ICBO, NES	2	X	X	X	X	X	X	X	X	X	X	X	X
Std. USDA	Polyester	Porous	USDA, ETL	White	X	X	X	X	X	X	X	X	X	X	X	X
Tuffex	Coated Polyester	Non-Porous	UL Classified, ICBO, NES	6 + 8 opt	X	X	X	X	X	X	X	X	X	X	X	X
DuraTex	Coated Polyester	Non-Porous	UL Classified, ICBO, NES	3	X	X	X	X	X	X	X	X	X	X	X	X
PolyTex	Coated Polyethylene	Non-Porous	UL Classified, ICBO, NES	3 + 2 opt	X	X	X	X	X	X	X	X	X	X	X	X

Euro Air / American Air / Air Sox (Rødning, Denmark - Minneapolis, MN) - www.euro-air.dk

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F.O.F. / Flow E Con (Delevan, WI) - www.fabricducts.com

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Fabric Air / IPS Ventilation (Louisville, KY / Koege, Denmark) - www.fabricair.com

Ducts	Trevia CS	Porous	UL Classified	4 + custom																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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K.E. Fibertec (Ciro Valley, AZ / Vejlen, Denmark) - www.kelfibertec.com

KE-Low Impulse	Trevia CS	Porous	UL Classified	5 + custom								X	X	X	X	X
KE-Interior	Trevia CS	Porous	UL Classified	5 + custom								X	X	X	X	X
KE-Inject	Trevia CS	Porous	UL Classified	5 + custom								X	X	X	X	X
KE-Direct	Trevia CS	Porous	UL Classified	5 + custom								X	X	X	X	X

M.A. Blomtex s.r.l. (Firenze, Italy) - www.blomtex.it

Low Impulse	FR Polyester	Porous	? <th>5 + 7</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td>	5 + 7							X	X	X	X	X	X
High Impulse	FR Polyester	Porous	? <th>5 + 7</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td>	5 + 7							X	X	X	X	X	X

Pal International s.r.l. / Koolduct (Vimercate, Italy) - www.koolduct.com

Soft-In System	FR Polyester	Porous	? <th>?<td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></th>	? <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td>							X	X	X	X	X	X
Jet-In System	PVC coated Polyester	Non Porous	? <th>?<td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></th>	? <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td>							X	X	X	X	X	X

Sinteco (Sesto San Giovanni, Italy) - www.sinteco.com

Hygiene	Coated Polyester	Porous		6							X	X	X	X	X	X
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Tombiling - ActiveAir (Spalding, England) - www.tombiling.com

Active-Air	Polyethylene Film	Non Porous		clear							X	X	X	X	X	X
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Yunker International (Elkhorn, WI) - www.yunkerplastics.com

EZ Flow	Coated Polyethylene	Non Porous		3							X	X	X	X	X	X
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Company

Fabric Specifications

Installation / Suspension

Supplier	Fabric	Porous / Non Porous	Clean / Laundry	Bldg. Code Compliance	Std. Colors + / Custom	Linear Vents	Plastic Nozzles	Custom Eng. Orifices	Office Patterns	Suspended Al. Track	Support Cable Rod	Flush Al. Track	D-Shape Mount	Cable
TIER 2: Market Fabric "System" - not Mfg.														
Berner International (New Castle, PA) - www.berner.com - Supplied by "F.O.F."														
Post Flow	Coated Polyester	Non Porous	X	BOCA, CPAL-84	3			X						X
Post Flow / Polyethylene	Coated Polyethylene	Non Porous		BOCA, CPAL-84	4			X						X
Hero Fabric (Chattanooga, TN) - www.herofabric.com - Supplied by Euro-Air / Q-Sox														
EverFlow	Trenka CS	Porous	X	UL Classified	4 + custom	X				X	X	X	X	X
Pavesi & Assoc. (Carmel, IN) - no website - Partially by "F.O.F." / some Mfg.														
Power Flow	Coated Polyester	Non Porous	X	BOCA, CPAL-84	?			X						X
Post Flow / Poly	Coated Polyethylene	Non Porous		BOCA, CPAL-84	?			X						X
Q-Sox / Fabric Air Diffusers (Minneapolis, MN) - www.qsox.com - Partially supplied by Euro-Air / some Mfg.														
EverFlow	Trenka CS	Porous		UL Classified	4 + custom	X				X	X	X	X	X

TIER 3: Offer Fabric Tubes with Fans & Equipment

Acme Eng. & Mfg. Corp (Muskogee, OK) - www.acmetan.com														
JETEX / Fan-Jet	Coated Polyethylene	Non Porous			off white			X	X					X
Air Max (Manchester, NH) - www.airmax.net														
Post Flow	Coated Polyethylene	Non Porous		CPAL-84	off white			X	X					X
Jeynes Co. / Alrigo (Hollis, NH) - www.jeynes.com														
Air Distribution Systems	Coated Polyethylene	Non Porous		CPAL-84, NEPA 701	off white				X					X
Patterson Fan Company (Blytheville, SC) - www.pattersonfan.com														
Power Tube	Coated Polyethylene	Non Porous			off white			X	X					X
Powered Alre Inc. (Santa Clara, CA) - www.poweredalr.com														
Tube	Coated Polyethylene	Non Porous			off white			X	X					X
Quietale Corporation / Actron (Houston, TX) - www.quietale.com														
Tube Vents	Coated Polyethylene	Non Porous			off white			X	X					X



**Underwriters
Laboratories Inc.**

Northbrook Division
333 Pingston Road
Northbrook, IL 60062-2096 USA
www.ul.com
Tel: 1 847 272 8500

January 15, 2004

Fabric Air Inc.
Mr. Mike Duarte
3206 47th St.
San Diego, CA. 92105 - USA

Our Reference : File SV1842 Project 03CA32282

Subject: Comercial Inspection and Testing Services (CITS), investigation of polyester
"Trevira" and coated polyester "Perfo".

Dear Mr. Duarte:

The polyester "Trevira" and coated polyester "Perfo" have successfully completed the Burn
(drip) Test in accordance to UL181 Sec. 9.

The coated polyester "Perfo" has completed 52 of the 60 days with success of the Mold Growth
and Humidity Test in accordance with UL181 Sec. 11.

Underwriters Laboratories Inc. neither selected the samples nor determined whether the
samples were representative of production samples. The test results apply only to the
actual samples tested.

Another letter will be sent to upon completion of the Mold Growth and Humidity Test.

Very truly yours,

CHRISTOPHER H. OBEID (Ext. 41790)
Project Handler 1
Fire Protection Division
Department 3019EFPD
Christopher.H.Obeid@us.ul.com

Reviewed by:

JAMES W. HATCHER (Ext. 42688)
Staff Engineer
Fire Protection Division
Department 3019EFPD
James.W.Hatcher@us.ul.com

An independent organization working for a safer world with integrity, precision and knowledge.



February 16, 2004

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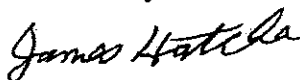
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Test for Surface Burning Characteristics of Building Materials

UL 723

Scope

1.1 This method of test for surface burning characteristics of building materials is applicable to any type of building material that, by its own structural quality or the manner in which it is applied, is capable of supporting itself in position or being supported in the test furnace to a thickness comparable to its intended use.

1.1 revised September 17, 2001

1.2 The purpose of the test is to determine the comparative burning characteristics of the material under test by evaluating the spread of flame over its surface and the density of the smoke developed when exposed to a test fire, and thus to establish a basis on which surface burning characteristics of different materials are compared, without specific regard to all the end-use parameters that affect the surface burning characteristics.

1.2 revised September 17, 2001

1.3 This method of test is intended to register performance during the period of exposure, and not to determine suitability for use after the test exposure. Reference the requirements for fire tests of building construction and materials, UL 263, for procedures for determining the performance, under fire exposure conditions, of building constructions and materials when incorporated into a test structure and subjected to a standard exposing fire of controlled extent and severity.

1.3 revised September 17, 2001

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UL MARK

The Classification Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the UL symbol, the word "CLASSIFIED" above the UL symbol (as illustrated in the Introduction of this Directory), and the following additional information:

**AIR DISTRIBUTION DEVICE
IN ACCORDANCE WITH FLAMMABILITY REQUIREMENTS
OF NFPA 90A
Control No.**

The Classification Mark for products investigated to ICC Evaluation Service AC167 may also include the statement "ALSO CLASSIFIED IN ACCORDANCE WITH ICC EVALUATION SERVICE AC167."

Last Updated on 2004-09-29

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**Underwriters
Laboratories Inc.**

AJIJ.GuideInfo Distribution Devices, Air

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[Air Conditioning Systems] Distribution Devices, Air

[See General Information for Air Conditioning Systems](#)

GENERAL

This category covers air distribution devices for use in air conditioning and ventilation systems that have been investigated in accordance with the flammability requirements of NFPA 90A, "Standard for the Installation of Air Conditioning and Ventilating Systems." These products are also considered to be investigated in accordance with the flammability requirements of the "International Mechanical Code" and the "Uniform Building Code."

These products exhibit flame spread indices of 25 or less and smoke developed indices of 50 or less, and are marked as having been investigated as to flammability requirements only.

However, where indicated in the individual Classifications, products are also investigated to ICC Evaluation Service AC167, "Acceptance Criteria for Fabric Air Dispersion Systems." These requirements additionally include weight, air permeability, mold growth and humidity, temperature, and pressure. Products investigated to AC167 are intended to be installed in accordance with the accompanying manufacturer's installation instructions.

Authorities Having Jurisdiction should be consulted before installation.

RELATED PRODUCTS

Factory-made air ducts investigated to [UL 181](#) are covered under Air Ducts ([ALLU](#)).

Factory-made air connectors investigated to [UL 181](#) are covered under Air Connectors ([ALNR](#)).

ADDITIONAL INFORMATION

For additional information, see Heating, Cooling, Ventilating and Cooking Equipment ([AAHC](#)).

REQUIREMENTS

The basic standard used to investigate products in this category is [UL 723](#), "Test for Surface Burning Characteristics of Building Materials."

FabricAir
RE: Fabric Air Ducts

7. These products shall be factory configured and constructed. Field assembly shall be by factory installed zippered joints. Field modification of these products is not approved.
8. These products shall be labeled with the name of the manufacturer or registered trademark and the model number of the particular item.

DISCUSSION

These products have been tested to UL 723 and do not exceed the 25/50 maximums for smoke and flame spread. The Polyester "Trevira" and coated polyester "perfo" fabrics have been tested for Burn (drip), Mold Growth & Humidity and complies with UL 181 Sections 9 and 11.

Current production samples were examined by the Mechanical Testing Laboratory and are equivalent to that prescribed by the Los Angeles Municipal Code in quality, strength, effectiveness, durability and safety.

For this General Approval to be valid on any individual construction project in the City of Los Angeles, an engineer or inspector of the Department of Building and Safety must make a determination that all conditions of the General Approval required to provide equivalency have been met in the case of each construction project under consideration.

This approval is granted under Sections 95.105, 95.302, 95.304 & 95.409.4 of the Los Angeles Mechanical Code (LAMC), 2002 Edition.

Approved by:

for *Vogan R. Thakur*
Amir Tabakh, Chief
Mechanical Engineering Section
Engineering Bureau

Prepared by: Mark Wang



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tel: 1 847 272 8900

January 15, 2004

Fabric Air Inc.
Mr. Tyge Hansen
1400 Envoy Circle, Suite 1616
Louisville, KY 40299 - USA

Our Reference : File SV1842 Project 03CA32282

Subject: Comercial Inspection and Testing Services (CITS), investigation of polyester
"Trevira" and coated polyester "Perfo".

Dear Mr. Hansen:

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(drip) Test in accordance to UL181 Sec. 9.

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and Humidity Test in accordance with UL181 Sec.11.

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Another letter will be sent to upon completion of the Mold Growth and Humidity Test.

Very truly yours,

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Project Handler 1
Fire Protection Division
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Christopher.H.Obeid@us.ul.com

Reviewed by:

JAMES W. HATCHER (Ext. 42688)
Staff Engineer
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An independent organization working for a safer world with integrity, precision and knowledge.



UL 181

STANDARD FOR SAFETY FOR FACTORY-MADE AIR DUCTS AND AIR CONNECTORS

Scope

These requirements apply to materials for the fabrication of air duct and air connector systems for use in accordance with the Standards of the National Fire Protection Association for the Installation of Air-Conditioning and Ventilating Systems, NFPA No. 90A, and the Installation of Warm Air Heating and Air-Conditioning Systems, NFPA No. 90B.

The air ducts and air connectors covered by these requirements include preformed lengths of flexible or rigid ducts, materials in the form of boards for field fabrication of lengths of rigid ducts, and preformed flexible air connectors.

For the purpose of these requirements, air ducts and air connectors are classified as follows:

Class 0 – Air ducts and air connectors having surface burning characteristics of zero.

Class 1 – Air ducts and air connectors having a flame-spread index of not over 25 without evidence of continued progressive combustion and a smoke-developed index of not over 50.

A product that contains features, characteristics, components, materials, or systems new or different from those in use when the Standard was developed, and that involves a risk of fire, electric shock, or injury to persons, shall be evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the level of safety for the user of the product as originally anticipated by the intent of this Standard.

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February 16, 2004

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Mr. Tyge Hansen
1400 Envoy Circle Suite 1616
Louisville, KY. 40299 - USA

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Reviewed by:

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February 11, 2003

FabricAir, Inc.
Tyge Hansen, President
1400 Envoy Circle
Suite 1616
Louisville KY 40299

Subject : Air Sock Product; Surface Burning and Burning Testing

Dear Mr. Hansen:

This is in response to Mr. Duarte fax dated February 6, 2003.

An air sock type product does not fall within the scope of our Standard for Factory-Made Air Ducts and Air Connectors, UL181. Products covered by our Listing Service for UL181 are required to meet minimum leakage and strength requirements such as pressure and collapse. Since an air sock type product also discharges air, this type product would not comply with the intent of UL181.

The Surface Burning Characteristics and Burning tests are two very different test methodologies. The Surface Burning Characteristics test requires a 2 ft. wide by 24 ft. long sample that is exposed to a horizontal flame front with air velocity pushing the flame front. During this type of testing, we monitor the progression of flame with time and also determine the smoke density based upon optical methods.

The Burning test specified in Sec. 9 of UL181 requires 3 ft. long samples which are subjected to flame impingement from a bunsen burner. Samples are tested in the vertical, 45° and horizontal orientations. Testing is usually required on both the inside and outside surfaces in each of the three orientations.

If you have further questions, please contact the undersigned.

Very truly yours,

James Hatcher
Staff Engineer
Fire Protection Division

Cc: FabricAir, Inc.
Miguel Duarte
3206 47th Street
San Diego CA 95105



FabricAir, Inc.
211 East Ontario Street, 18th Floor
Chicago, IL 60611
www.fabricair.com

APPENDIX: Michigan Application of Approval of Material, Product or Method.

No. 1:

- 1.1 These flexible FabricAir Dispersion Units are manufactured of flexible woven or non-woven materials in 8 to 100 inches diameter and in unlimited length. The Units can be fully round, half round, square and quarter round.

No. 2:

- 2.1 The FabricAir Dispersion Units is used for ventilation, heating and cooling in commercial or industrial indoor settings with large open or small conditioned spaces.

No. 3:

- 3.1: These products shall not penetrate any rated walls, ceilings or floors and shall be attached to the heating, cooling or ventilation system with factory specified and furnished attachment hardware.
- 3.2: The maximum allowable internal air velocity, for all duct sizes or diameter is 2000 feet per minute.
- 3.3: These products shall be fully supported as per manufacturer's specifications and shall be supported every 25 feet.
- 3.4: These products shall be continuously connected to the AC unit or the plenum box.
- 3.5: These products shall not be installed where the temperature of the conditioned air or the ambient conditions is less than 0° Fahrenheit or exceeds 160° Fahrenheit.
- 3.6: These products shall be factory configured and constructed. Field assembly shall be by factory installed zippers joints. Field modifications of these products are not approved.
- 3.7: These products shall be labeled with manufacturer's name, or registered trademark and model number where visible for inspection.

No. 4:

- 4.1 Attached documentation, Approval from City of Los Angeles (Board of Building and Safety Commissioners)



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

Document No. 08-40a - c

April 22, 2008

TO: Members of the Construction Code Commission

FROM: Irvin J. Poke, AIA, Chief, Plan Review Division

SUBJECT: Issuance of Certificates of Acceptability

Attached please find three (3) recommendations for approval of a Certificate of Acceptability for the following manufacturers.

08-40a – 510 – Hubley Industries, Inc.

08-40b – 516 – Craven Construction Inc DBA Cottage A Day

08-40c – 372 – Liberty Homes Inc-Dorchester Homes

IJP/dd
Attachments

Providing for Michigan's Safety in the Built Environment

BUREAU OF CONSTRUCTION CODES
P.O. BOX 30254 • LANSING, MICHIGAN 48909
Telephone (517) 241-9328 • Fax (517) 241-9308
www.michigan.gov



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

Document No. 08-40a

April 22, 2008

TO: Members of the Construction Code Commission

FROM: Irvin J. Poke, AIA, Chief, Plan Review Division

SUBJECT: **Compliance Assurance No. 510**
Certificate of Acceptability
Hubley Industries, Inc.
210 S. Washington Street
Pottstown, PA 19464

The above manufacturer has submitted a Compliance Assurance Program and appropriate fees. The inspection and evaluation agency has been previously certified by the Construction Code Commission. The Plan Review Division has evaluated the submission for compliance with Rules 1161 through 1168 and recommends that the Commission issue a Certificate of Acceptability, in accordance with Sections 4 and 19 of 1972 PA 230, MCL 125.1504, and the General Rules, Part 11 Premanufactured Units, Rule 1132(1).

IJP/dd

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CERTIFICATE OF ACCEPTABILITY

Manufacturer's Compliance Assurance Program

Michigan Department of Labor & Economic Growth

Bureau of Construction Codes

P. O. Box 30254

Lansing, MI 48909

(517) 241-9328

MANUFACTURER:

Hubley Industries, Inc.
210 S Washington Street
Pottstown, PA 19464

COMPLIANCE ASSURANCE PROGRAM NO.

510

LOCATION OF PLANT:

Hubley Industries, Inc.
210 S Washington Street
Pottstown, PA 19464

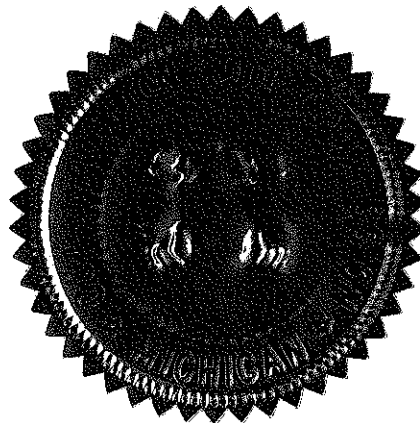
INSPECTION AGENCY:

PFS Corporation
2877 Skatetown Road
Bloomsburg, PA 17815

THE ABOVE NAMED MANUFACTURER, HAVING SUBMITTED AN APPLICATION AND A COMPLIANCE ASSURANCE MANUAL FOR PROGRAM APPROVAL; AND THAT SAID MANUFACTURER HAVING MET THE REQUIREMENTS FOR SUBMISSION OF A COMPLIANCE ASSURANCE PROGRAM IN ACCORDANCE WITH THE RULES OF THE CONSTRUCTION CODE COMMISSION, PART 11, PREMANUFACTURED UNITS; THEREFORE, THIS CERTIFICATE OF ACCEPTABILITY IS ISSUED.

BY AUTHORITY CONFERRED ON THE CONSTRUCTION CODE COMMISSION BY SECTIONS 4 AND 19 OF 1972 PA 230, MLC 125.1504.

Donald L. Pratt, Chairperson
Construction Code Commission
Date: May 7, 2008



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JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

Document No. 08-40b

April 22, 2008

TO: Members of the Construction Code Commission

FROM: Irvin J. Poke, AIA, Chief, Plan Review Division

SUBJECT: **Compliance Assurance No. 516**
Certificate of Acceptability
Craven Construction Inc DBA Cottage In A Day
3139 N Keystone Road
Traverse City, MI 49686

The above manufacturer has submitted a Compliance Assurance Program and appropriate fees. The inspection and evaluation agency has been previously certified by the Construction Code Commission. The Plan Review Division has evaluated the submission for compliance with Rules 1161 through 1168 and recommends that the Commission issue a Certificate of Acceptability, in accordance with Sections 4 and 19 of 1972 PA 230, MCL 125.1504, and the General Rules, Part 11 Premanufactured Units, Rule 1132(1).

IJP/dd

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Telephone (517) 241-9328 • Fax (517) 241-9308
www.michigan.gov

CERTIFICATE OF ACCEPTABILITY

Manufacturer's Compliance Assurance Program

Michigan Department of Labor & Economic Growth

Bureau of Construction Codes

P. O. Box 30254

Lansing, MI 48909

(517) 241-9328

MANUFACTURER:

Craven Construction Inc DBA Cottage In A Day
3000 N Keystone Road
Traverse City, MI 49686

COMPLIANCE ASSURANCE PROGRAM NO.

516

LOCATION OF PLANT:

Craven Construction Inc DBA Cottage In A Day
3139 N Keystone Road
Traverse City, MI 49686

INSPECTION AGENCY:

State of Michigan
Bureau of Construction Codes
PO Box 30254
Lansing, MI 48909

THE ABOVE NAMED MANUFACTURER, HAVING SUBMITTED AN APPLICATION AND A COMPLIANCE ASSURANCE MANUAL FOR PROGRAM APPROVAL; AND THAT SAID MANUFACTURER HAVING MET THE REQUIREMENTS FOR SUBMISSION OF A COMPLIANCE ASSURANCE PROGRAM IN ACCORDANCE WITH THE RULES OF THE CONSTRUCTION CODE COMMISSION, PART 11, PREMANUFACTURED UNITS; THEREFORE, THIS CERTIFICATE OF ACCEPTABILITY IS ISSUED.

BY AUTHORITY CONFERRED ON THE CONSTRUCTION CODE COMMISSION BY SECTIONS 4 AND 19 OF 1972 PA 230, MLC 125.1504.

Donald L. Pratt, Chairperson
Construction Code Commission
Date: May 7, 2008



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JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

Document No. 08-40c

April 22, 2008

TO: Members of the Construction Code Commission

FROM: Irvin J. Poke, AIA, Chief, Plan Review Division

SUBJECT: **Compliance Assurance No. 372**
Certificate of Acceptability
Liberty Homes Inc - Dorchester Homes
337 Liberty Drive
Dorchester, WI 54425

The above manufacturer has submitted a Compliance Assurance Program and appropriate fees. The inspection and evaluation agency has been previously certified by the Construction Code Commission. The Plan Review Division has evaluated the submission for compliance with Rules 1161 through 1168 and recommends that the Commission issue a Certificate of Acceptability, in accordance with Sections 4 and 19 of 1972 PA 230, MCL 125.1504, and the General Rules, Part 11 Premanufactured Units, Rule 1132(1).

IJP/dd

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CERTIFICATE OF ACCEPTABILITY

Manufacturer's Compliance Assurance Program

Michigan Department of Labor & Economic Growth

Bureau of Construction Codes

P. O. Box 30254

Lansing, MI 48909

(517) 241-9328

MANUFACTURER:

Liberty Homes Inc - Dorchester Homes
337 Liberty Drive
Dorchester, WI 54425

COMPLIANCE ASSURANCE PROGRAM NO.

372

LOCATION OF PLANT:

Liberty Homes Inc - Dorchester Homes
337 Liberty Drive
Dorchester, WI 54425

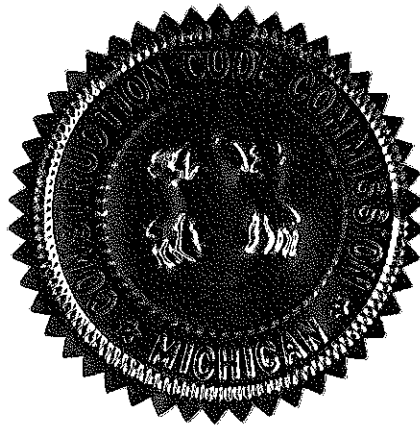
INSPECTION AGENCY:

PFS Corporation
1507 Matt Pass
Cottage Grove, WI 53527

THE ABOVE NAMED MANUFACTURER, HAVING SUBMITTED AN APPLICATION AND A COMPLIANCE ASSURANCE MANUAL FOR PROGRAM APPROVAL; AND THAT SAID MANUFACTURER HAVING MET THE REQUIREMENTS FOR SUBMISSION OF A COMPLIANCE ASSURANCE PROGRAM IN ACCORDANCE WITH THE RULES OF THE CONSTRUCTION CODE COMMISSION, PART 11, PREMANUFACTURED UNITS; THEREFORE, THIS CERTIFICATE OF ACCEPTABILITY IS ISSUED.

BY AUTHORITY CONFERRED ON THE CONSTRUCTION CODE COMMISSION BY SECTIONS 4 AND 19 OF 1972 PA 230, MLC 125.1504.

Donald L. Pratt, Chairperson
Construction Code Commission
Date: May 7, 2008



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